

|     |       |       |       |       |       |       |       |       |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|
| 8   | 27364 | 92836 | 69428 | 61268 | 74982 | 46498 | 32764 | 31276 |
| 86  | 40932 | 70987 | 32123 | 49817 | 26346 | 81287 | 65491 | 87364 |
| 721 | 75654 | 55656 | 12737 | 72727 | 72727 | 91918 | 63473 | 67867 |
| 723 | 87629 | 37677 | 32612 | 53498 | 71296 | 28756 | 18276 | 98716 |
| 269 | 76329 | 74698 | 76857 | 98670 | 27601 | 56701 | 57601 | 73648 |
| 711 | 87364 | 87265 | 96710 | 27630 | 12673 | 84769 | 28743 | 98127 |
| 78  | 63298 | 75698 | 27465 | 87326 | 49876 | 28376 | 81273 | 98615 |
| 7   | 87432 | 74328 | 78674 | 29867 | 32867 | 67867 | 86786 | 43286 |
| 7   | 68768 | 68763 | 34234 | 34238 | 68768 | 62342 | 48273 | 48768 |
| 26  | 98432 | 32432 | 86743 | 43286 | 43286 | 43286 | 43286 | 43286 |
| 243 | 86743 | 86743 | 39867 | 32867 | 86743 | 43286 | 43286 | 43243 |
| 8   | 86743 | 86743 | 86743 | 86743 | 86743 | 86743 | 86743 | 86743 |
| 92  | 98798 | 98754 | 98754 | 98754 | 98754 | 29867 | 67543 | 67986 |
| 6   | 87698 | 69876 | 87698 | 69876 | 87612 | 12341 | 34867 | 86798 |
| 7   | 43298 | 65656 | 56756 | 56123 | 32143 | 14321 | 32143 | 14321 |
| 7   | 58765 | 58765 | 58765 | 58765 | 58765 | 58765 | 58765 | 58765 |

# Numbers & Oddities

*Edition #341, February 2026*

Editor: Ary Boender email: [udxf@udxf.nl](mailto:udxf@udxf.nl)

Numbers & Oddities <http://www.numbersoddities.nl>

"Numbers & Oddities" covers the fascinating world of Numbers Stations and other odd radio signals on shortwave.

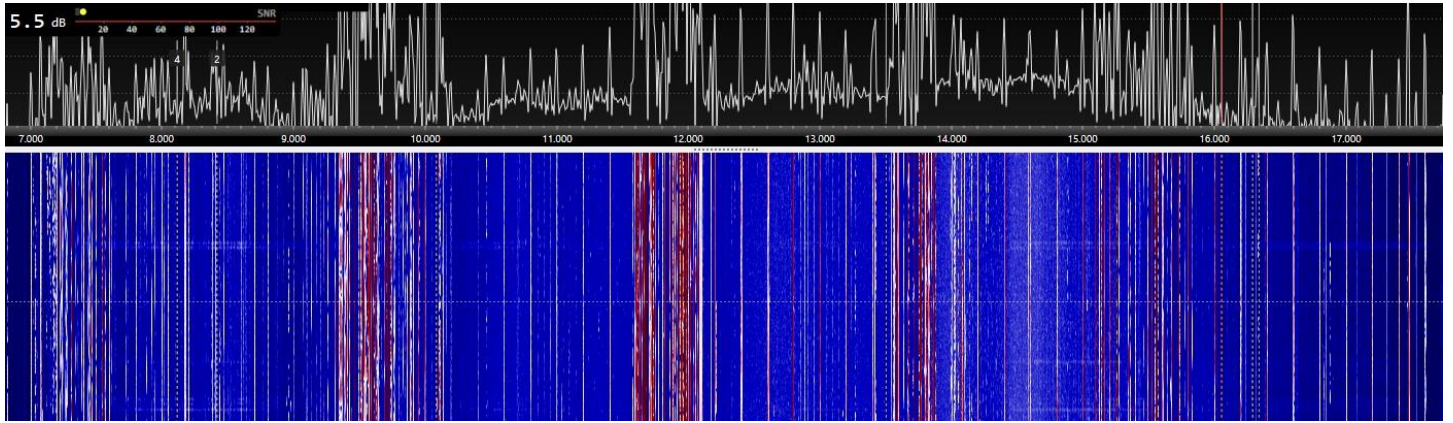


-. .- -- -... . - . . . . - . - . - . - - - - . - . - . . - . . . . .

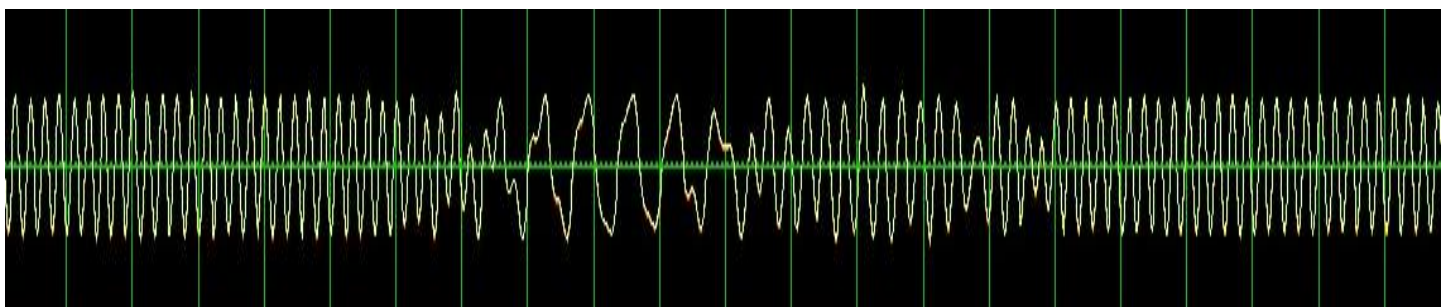


Numbers and Oddities

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## NOTE FROM THE EDITOR

February was a fairly ordinary month in the world of number stations, until the 28th, when a Farsi number station popped up with live transmissions. This was on the same day that the Iran war began.

After several months without V13 logs, we now have a number of V13 transcripts. Thanks to Fspy. HK found V28 again. It's been a long time since we've seen a log of that network. The diplo corner is also nicely filled as is the Special Purpose section.

I received 7 pages of contributions just after I uploaded N&O. They are added to the Logs section, F06a section, Utility Roundup, and the Russian Operator 6 Tests section. I also corrected a few annoying errors.

Thanks to all contributors.



## VOICE STATIONS

### E06

#### **12107//9481 kHz, 01-02, 0730/0800 UTC**

480 726 31  
63193 49834 18378 73165 83069 03979 60561 43862 28753 27497  
95391 49860 76791 39878 48793 97816 31597 04936 09047 35940  
32025 52358 05380 39365 92964 78678 17526 09490 69160 95140  
23962  
726 31 00000

#### **9951 kHz, 07-02, 1600 UTC. Not heard**

#### **6792 kHz, 07-02, 1630 UTC**

#### **12107/9481 kHz, 08-02, 2700/0730 UTC**

480 765 44  
46367 58721 08736 04178 84207 82616 45028 42080 39580 86951  
34241 94765 41280 61902 92309 40986 93472 18280 39634 89418  
15969 71575 43907 03072 23643 71454 21649 85064 73158 51982  
40462 10386 75213 89692 28150 25350 05137 06538 70621 25201  
37679 47865 30562 26847  
765 44 00000

#### **9951 kHz, 14-02, 1600 UTC. Restart during callup**

#### **6792 kHz, 14-02, 1630 UTC**

#### **12107/9481 kHz, 15-02, 2700/0730 UTC**

480 357 46  
47830 18363 49627 14364 03502 35458 40609 51516 53192 43043  
76170 52401 67689 45692 67453 16804 34038 06769 01876 61976  
80398 70508 48049 21504 96579 25161 56179 07629 35159 91731  
31720 54909 47278 27252 15039 93264 14851 63875 41424 34625  
71808 97872 94240 62314 64823 61537  
357 46 00000

#### **9951/6792 kHz, 21-02, 1600/1630 UTC**

#### **12107/9481 kHz, 22-02, 2700/0730 UTC**

480 375 44  
03642 71346 27625 25231 48149 72176 35940 39172 16793 92979  
91742 89142 95498 94294 72068 14679 49307 40703 86738 40409  
64145 82614 21708 51591 83465 64182 30304 92934 90385 34393  
92913 76497 67098 97514 71917 60490 20732 02983 15297 86291  
41361 54764 28549  
375 44 00000

**9951/6792 kHz, 28-02, 1600/1630 UTC**  
**13921/12089 kHz, 01-03, 0730/0800 UTC**

480 937 45  
13576 13561 24641 61907 07687 41470 96287 85286 73406 14357  
05497 85302 60489 05866 64607 96023 58721 05278 14757 38452  
03649 56201 40370 35672 46476 07171 59827 59238 86396 20598  
13968 47898 60615 76973 34749 89210 42785 08727 12386 43529  
03950 56848 43961 05918 86701  
937 45 00000

## **E07**

15858/14458/12158 kHz, 1500/1520/1540 UTC

**15858/14458/12158 kHz, 03-02/06-02, 1500/1520/1540 UTC**

841 841 841 1 765 175 765 175  
81781 81418 63287 63705 50199 51453 13618 29301 75953 26076  
72105 16430 73293 41730 19583 14664 12308 94606 41509 88113  
66396 35423 56028 64263 29744 09628 17149 94043 76834 64713  
72222 89841 59039 06250 85261 59835 97275 91008 61650 85052  
44754 68494 13192 99385 20745 72328 50140 71688 47552 02143  
65837 36098 85151 00400 70644 35632 38161 63554 71708 56449  
69752 43521 21505 79045 57673 66799 76517 49357 81912 59183  
33091 61485 54577 30138 94896 30037 95376 35370 16010 03168  
10504 42218 74496 42796 83799 08565 79674 66499 30902 66102  
19764 98831 41508 01699 63263 76049 82479 71645 92044 64688  
87817 30813 26856 00742 01348 68979 49251 18067 88633 78653  
80386 32591 34782 55679 76497 42275 50124 79475 40415 01678  
39937 90443 38843 82560 54228 38071 88123 93811 38728 55406  
41916 26804 14609 54004 29347 73871 88108 12575 17761 74713  
91562 55435 63157 80053 49881 90598 51679 66700 80647 79988  
87402 85155 54074 10185 35962 22371 86678 46365 59219 58691  
70098 87061 61746 25350 86507 62578 46758 68697 15894 89120  
43091 93046 33083 45803 13582 000 000

**15858/14458/12158 kHz, 17-02/20-02, 1500/1520/1540 UTC**

841 841 841 1 953 99 953 99  
84109 29673 30226 60016 60908 16325 10194 99369 85612 58361  
94402 23658 25457 78697 22118 07964 35502 56656 78000 23572  
97816 85667 34204 77855 98562 11964 63217 38678 97346 66228  
50714 37177 96826 76129 63360 50710 39592 49845 17942 56929  
59331 27354 65481 38701 10171 72579 65555 89510 27181 79605  
57190 73300 85683 91416 10359 85769 71531 63502 65374 75153  
45874 50400 05033 60811 63694 71570 86236 59687 45344 27380  
43355 19118 60544 65906 02730 49181 75805 05075 22330 69538  
92074 74822 03636 14156 88393 91116 23763 27611 86910 80994  
98897 22072 01498 16667 44736 11797 46351 13685 98768 000 000

18364/17451/16243 kHz, 1000/1020/1040 UTC

**18364/17451/16243 kHz, 12-02/14-02, 1000/1020/1040 UTC**

342 342 342 1 9981 126 9981 126  
29828 70644 68338 48657 76959 03985 33739 90433 47393 38020  
05024 45274 88754 86958 02854 95470 10041 58658 11321 10155  
95214 99357 35289 75812 85389 55206 49318 18003 26681 62739  
93823 11491 31160 30712 81324 82720 03344 88290 68019 47944  
17034 69741 41692 19243 95414 09230 25379 81851 17072 17735  
80291 56577 55806 47698 19659 88138 41119 61028 05502 40527  
46788 34476 68020 16529 66144 68847 70395 95138 22344 83122  
25820 94979 73335 66471 53562 99774 23163 01313 89773 05474  
31628 56271 32171 24630 15674 05103 47946 85056 05760 59129  
04927 82714 58376 43697 46791 03747 24914 01612 10162 66439

01582 34293 82690 75203 19341 60884 51527 68251 58735 00763  
86721 26770 79456 26088 57190 33481 88002 24204 00147 49492  
79634 42830 53485 37149 32608 52680 000 000

**18364/17451/16243 kHz, 26-02/28-02, 1000/1020/1040 UTC**

342 342 342 1 634 191 634 191  
26961 58670 77301 64370 01164 82461 49217 15582 97120 71732  
16134 80114 00659 35298 42420 60141 51151 66418 29605 47031  
58522 59753 77356 93458 91291 39939 91575 81713 18949 51601  
78154 21067 98876 87336 88058 58560 61645 24948 58915 69502  
65463 24342 77814 76070 53214 23025 53829 24274 19342 95060  
39589 26885 19217 37309 44405 83053 06203 38605 32747 60792  
16582 11941 67759 54409 40453 17964 59058 27088 89732 13196  
72457 13276 68013 75877 47805 34810 16984 62796 12247 15111  
46908 82552 21724 94155 97894 28024 57818 27311 34595 18276  
33327 52592 63229 71850 14953 39660 54315 21383 82722 63115  
32754 39439 01477 73542 81539 21194 66144 79711 85751 71306  
24483 75511 03614 24532 22649 15572 27738 79610 83809 58282  
25877 53215 96352 20895 94283 36711 27962 48632 82004 28363  
78752 38278 83130 01971 73381 74588 74228 04971 22011 58063  
34867 21041 68598 36657 32549 04874 72245 42203 45622 89631  
39446 13481 67106 79762 92357 56796 62406 19921 74823 69966  
16727 44794 92253 58214 74726 76650 28969 31736 49968 86941  
27597 18663 24163 50593 04528 70066 98796 36672 51041 10952  
88591 02707 39344 37636 42502 00720 20784 66465 11997 44361  
97872 000 000

**E11a**

**7850 kHz, 01-02, 0600 UTC**

352/38 Attention  
05116 85107 52203 11340 83394 21408 20944 58219 03283 03780  
87766 54685 12702 13600 05702 29872 74965 10856 39730 93460  
58821 29499 95518 50973 85357 97543 16141 84777 76135 80116  
30825 03344 51927 78550 58480 60083 55278 09171  
Attention (message repeated) Out

**4909 kHz, 31-01/01-02, 1645 UTC**

364/40 Attention  
36001 59387 32745 35740 70712 41322 73501 15346 46391 32113  
19060 02570 03143 34315 27237 04023 59899 11435 28864 34797  
30247 80723 68943 22270 24658 04730 29528 15121 90242 49865  
22777 29807 85328 03505 82299 28648 36238 94051 31365 55983  
Attention (message repeated) Out

**20286 kHz, 02-02/04-02, 0600 UTC**

949/22 Attention  
12519 59197 12071 07785 56080 73340 44433 85197 84680 87440  
36024 35246 87520 10924 86726 21274 68254 71583 21348 02291  
85122 71286  
Attention (message repeated) Out

**10213 kHz, 02-02, 0745 UTC**

268/31 Attention  
02254 41277 26721 01373 24771 86142 67706 72851 30613 19415  
72485 38213 42223 39015 61387 29349 91366 10440 44563 91136  
81215 68115 18051 65950 35881 54288 15213 28256 16175 64929  
77752  
Attention (message repeated) Out

**23353 kHz, 02-02, 0830 UTC**

180/22 Attention

72056 13525 58742 21451 99850 59873 24562 79091 96860 61994  
29011 27976 03524 60803 19678 82446 19198 48344 43221 10560  
54589 44746

Attention (message repeated) Out

**14410 kHz, 02-02, 1045 UTC**

691/22 Attention

55102 58419 65566 74272 79409 95501 84999 45153 66313 68760  
11233 82803 87984 76201 87744 88598 79591 96584 21142 43814  
95557 25373

Attention (message repeated) Out

**6849 kHz, 02-02/05-02, 1900 UTC**

647/37 Attention

84558 89263 09309 81367 36237 72818 74347 86182 69930 40045  
80929 45405 37115 03951 77946 06525 69865 00012 26905 70739  
14953 15240 93087 62991 40239 67485 49449 41896 54582 02574  
94462 10998 98488 64047 32080 70173 71207

Attention (message repeated) Out

**17378 kHz, 03-02/05-02, 0845 UTC**

159/22 Attention

76369 07085 43729 33109 97562 34461 78836 99828 49224 89789  
95503 75632 28042 73582 13180 52350 83247 71989 97783 19605  
32992 10918

Attention (message repeated) Out

**14611 kHz, 03-02/04-02, 0820 UTC**

132/36 Attention

10251 60065 29998 27677 96023 40473 84986 96461 36673 60544  
04668 71832 81133 73229 48088 08827 24795 74218 02819 18790  
42447 56971 71694 36865 25630 07260 66570 17944 25171 30505  
09855 00210 31114 71399 46816 05839

Attention (message repeated) Out

**14410 kHz, 04-02, 1045 UTC**

696/22 Attention

80703 69519 46588 93027 92701 12861 20631 51482 50500 77970  
22843 98227 49462 82174 44923 23198 89114 25255 01168 12197  
28889 35365

Attention (message repeated) Out

**4505 kHz, 04-02/07-02, 1610 UTC**

391/38 Attention

22973 34076 94188 02910 86890 70748 29234 34405 92992 53793  
11982 37791 51564 05273 79528 08644 36927 20582 27850 47217  
69030 82423 65273 11020 05075 26297 64311 94753 39160 29587  
47041 24141 38771 60114 68871 01032 80237 57967

Attention (message repeated) Out

**5409 kHz, 05-02, 1530 UTC**

261/31 Attention

53597 93431 68124 27790 84188 99065 82418 79036 72448 60838  
37176 30154 42763 14800 35505 67479 15801 26010 99474 86789  
19917 20034 77653 51540 24188 00233 99894 59263 86826 62501  
54435

Attention (message repeated) Out

**7850 kHz, 06-02/08-02, 0600 UTC**

353/32 Attention

49120 65117 11662 14503 75234 45138 87365 96234 31475 25042  
12389 75825 37403 60088 07622 86504 14974 94415 56504 09126  
93187 88001 63885 17363 63955 12522 50082 28339 75607 79455  
96728 07523

Attention (message repeated) Out

**5371 kHz, 07-02/08-02, 0700 UTC**

498/34 Attention

42069 22000 57997 34719 48525 85976 70295 17923 92787 60029  
55615 23876 34923 88688 17875 19600 59829 30053 67713 71424  
92866 68960 73722 75839 94141 50508 74565 46659 26371 49130  
10092 74607 31806 12115

Attention (message repeated) Out

**4909 kHz, 09-02/12-02, 1300 UTC**

316/36 Attention

07091 45569 20017 32351 83252 73270 93275 92546 41396 19594  
42240 27663 61770 75671 05925 40064 48971 94142 32087 38318  
58649 94081 94661 27209 92294 76362 55981 85009 40992 94925  
52365 00750 44395 09357 08766 40820

Attention (message repeated) Out

**12385 kHz, 10-02/12-02, 0645 UTC**

515/31 Attention

31395 82144 71417 19133 50274 97350 61025 36205 39726 45653  
53474 25810 00877 41332 72436 53903 64457 44047 57894 04237  
01322 91139 12411 62670 39394 41190 30475 78058 80890 11771  
48801

Attention (message repeated) Out

**23031 kHz, 10-02/12-02, 0745 UTC**

220/39 Attention

06269 20157 86872 29947 90141 89768 36025 48222 18136 40897  
99943 67321 27463 53236 39984 13877 83546 94696 62291 92772  
51914 93263 52529 99266 71601 59896 67060 26349 64122 01667  
05829 58808 54895 12006 92604 23271 47713 14284 37950

Attention (message repeated) Out

**5082 kHz, 11-02/13-02, 1715 UTC**

974/32 Attention

46894 34034 13979 77591 67627 85295 09618 47281 54913 57587  
63061 91789 21880 35486 55616 03683 58135 02157 91639 35754  
23232 89506 78795 14648 12639 07238 68521 40960 39107 85315  
44881 75082

Attention (message repeated) Out

**6849 kHz, 13-02/15-02, 1815 UTC**

927/32 Attention

84557 88169 83108 45657 67993 91265 37683 63463 92967 69837  
33174 58861 35849 80763 21769 27565 17354 79572 12052 09324  
13776 71474 13637 04542 63857 15069 05290 08393 06009 90311  
03851 43744

Attention (message repeated) Out

**4909 kHz, 14-02/15-02, 1645 UTC**

369/32 Attention

56800 63457 97646 50630 58245 31058 76882 29287 93578 69323  
61596 21701 56745 98935 82646 35478 75364 87945 35449 78007  
33513 67493 72366 34140 79393 69681 13979 56956 58801 05745  
97688 49619

Attention (message repeated) Out



**12924 kHz, 16-02, 1745 UTC**

246/33 Attention

25538 93372 73234 14796 51179 19732 84107 97510 63510 85559  
44216 30379 15710 55711 60459 30917 87089 73556 07705 64422  
48412 81618 13019 15003 36041 96161 18335 50247 77168 24583  
29408 28738 26297

Attention (message repeated) Out

**13363 kHz, 17-02/21-02, 1430 UTC**

912/37 Attention

02223 54408 00880 07670 53037 08592 87292 33846 93341 98230  
16263 16011 48807 33218 62447 27781 36332 21200 44416 28870  
74345 71024 89016 95195 39856 23557 77459 59309 80605 73799  
43426 08856 28975 43120 62221 70035 79023

Attention (message repeated) Out

**5432 kHz, 17-02/22-02, 1605 UTC**

236/36 Attention

14446 84443 28294 37605 55990 49434 84607 54420 82411 26784  
67909 56693 16803 44233 73646 05871 43477 06118 36078 86274  
47847 40798 24632 38283 11323 97700 92143 63901 62642 94171  
61229 40946 71453 38045 34090 00851

Attention (message repeated) Out

**17378 kHz, 18-02, 0745 UTC / 17378 kHz, 20-02, 1020 UTC**

344/38 Attention

82443 12911 38709 95532 56304 73855 32156 19955 07920 80054  
21267 02690 37395 94046 59946 61401 56891 27347 61359 37604  
58192 94662 57015 72302 79159 68096 34211 88871 41872 35330  
09977 19843 41428 18508 67493 82463 59967 30956

Attention (message repeated) Out

**7469 kHz, 18-02/19-02, 0930 UTC**

273/38 Attention

85195 81926 41441 79999 04330 66201 76059 33365 17668 81020  
81373 87558 08028 85552 58163 16980 01629 11447 19879 75002  
39136 73886 05896 93400 83092 24051 68167 41125 75598 44512  
64287 20240 27560 61529 12836 39143 77505 52632

Attention (message repeated) Out

**8180 kHz, 19-02/20-02, 0720 UTC**

435/38 Attention

86998 12157 92684 82114 97719 98735 84875 86874 07987 06995  
45739 00833 02274 42278 20792 04408 14218 49773 72497 57900  
45348 13643 48188 30152 55042 42381 00377 25426 90010 73167  
32437 71720 46664 75537 69724 88556 70836 41476

Attention (message repeated) Out

**10487 kHz, 20-02/22-02, 1910 UTC**

612/31 Attention

34121 40995 76779 31781 88315 72485 33660 12761 29828 01622  
18883 12002 16399 44613 99730 67202 06583 87168 70151 35449  
65933 60370 10490 53209 69968 30939 56008 94355 24135 73166  
53898

Attention (message repeated) Out

**12924 kHz, 22-02, 1745 UTC. No repeat of 16-02 but a new message**

247/33 Attention

76973 71700 76899 45685 90168 66772 53178 95332 28225 62068  
28841 93388 19116 40453 27894 47569 89178 14207 45483 08691  
28317 35910 48559 35917 51126 96507 07908 65188 22312 69275  
54681 41729 48896

Attention (message repeated) Out



**8102 kHz, 23-02/25-02, 0315 UTC**

252/33 Attention

73623 69286 03590 92836 45290 77389 76746 82837 21681 96942  
31100 24418 78005 90023 40268 53783 58738 92631 01361 97624  
21950 40508 78569 07783 81424 14291 04112 37560 36574 93898  
20377 18256 54593

Attention (message repeated)

**13911 kHz, 23-02/25-02, 0645 UTC**

410/31 Attention

59109 32108 03788 74515 38217 25351 15353 38470 01983 14949  
94781 12937 51465 79290 41281 83966 62470 46786 37174 07771  
87714 70607 75388 31495 61892 36658 22022 64532 08537 58309  
15594

Attention (message repeated) Out

**20167 kHz, 23-02/25-02, 0715 UTC**

757/34 Attention

83065 25624 57213 73695 28015 74582 25978 82399 88489 98443  
61950 28302 68133 33968 03633 73366 64674 77056 79681 44997  
09123 38334 99430 36674 86615 23847 74631 98693 62773 65044  
08177 77370 31459 25206

Attention (message repeated) Out

**12067 kHz, 23-02/25-02, 0845 UTC**

715/39 Attention

29994 46169 08108 05771 02211 74952 87835 30388 81220 35181  
34637 20176 28604 31333 06006 89144 03392 21624 53808 47606  
94235 49052 75402 08545 43855 55639 73407 90997 78623 04066  
57826 59710 57531 91932 07513 36298 92225 50461 89985

Attention (message repeated) Out

**15915 kHz, 23-02/25-02, 0900 UTC**

530/40 Attention

84097 14118 45540 23868 16407 27843 68915 98456 04758 94589  
34924 50057 16871 15595 82575 27336 38368 75996 10001 95199  
36702 46570 79533 73998 07234 19185 13265 72971 06947 71064  
43349 85609 59563 20252 89510 30675 26234 01282 15646 18516

Attention (message repeated) Out

**6804 kHz, 24-02/27-02, 0700 UTC**

573/37 Attention

59176 03252 56715 03813 35587 39476 68927 71809 46512 15877  
48344 66273 88155 27744 64172 79735 92959 39412 47609 21230  
88411 92234 24735 54367 29491 35422 43773 10062 73343 78072  
75223 20337 12950 54723 08335 33233 26861

Attention (message repeated) Out

**13911 kHz, 24-02/27-02, 0715 UTC**

631/35 Attention

28330 71624 35789 89905 81478 45928 39509 34196 78584 99612  
31354 10770 32154 63273 11512 93330 44030 51515 14140 30463  
50786 68133 02826 79034 42825 04322 98212 54131 32292 33579  
49690 03618 17186 04168 12631

Attention (message repeated) Out

**9079 kHz, 24-02/27-02, 1000 UTC**

306/28 Attention

24120 28792 04914 33510 73822 11837 76382 28633 57172 42692  
52202 36613 85302 03156 49465 48551 28801 93985 42908 14028  
81040 42232 99784 19496 11623 27333 67984 43368

Attention (message repeated) Out

**11559 kHz, 24-02/25-02, 1205 UTC**

466/31 Attention

91328 50557 96689 01895 45704 37149 86327 62082 86059 52053  
43982 41565 73746 60027 89903 38648 18274 13214 63564 98485  
33490 54999 51591 39280 93673 50140 60799 76771 52483 03408  
71687

Attention (message repeated) Out

**5082 kHz, 26-02, 2000 UTC**

**5737 kHz, 01-03, 2000 UTC**

527/35 Attention

69546 19118 75352 33623 02733 78042 98365 15974 10081 64507  
24004 77744 59180 34728 93656 91968 17227 67737 33015 97662  
11336 28958 38414 62959 26702 17279 13711 46993 26918 03820  
00606 43402 93792 33688 21743

Attention (message repeated) Out

**S06**

**11486/6783 kHz, 04-02, 1730/1800 UTC**

480 139 48

91456 64169 15792 13165 07305 58424 93765 06353 08184 25694  
86967 78160 19349 45292 63805 91272 58520 47063 25808 70235  
19347 85407 61802 01921 85857 08240 61263 58615 08520 78672  
72042 67201 67529 58490 12714 76210 37353 76506 53294 25371  
83126 38620 80240 87079 29718 42163 39381 38171  
139 48 00000

**9425/6783 kHz, 11-02, 1730/1800 UTC**

480 921 43

17060 82370 70290 10468 45605 02745 29058 60404 59838 37605  
40249 79513 13010 56202 82613 28901 64845 45951 86961 19423  
51965 74289 94636 20728 21851 83763 38921 64120 03646 41705  
94801 38959 01486 89635 67083 83797 19807 26751 35358 96714  
02061 06729 93795  
921 43 00000

**9425/6783 kHz, 18-02, 1730/1800 UTC**

480 129 46

67878 65172 15680 46132 01682 69574 67581 01916 20971 07687  
96067 24873 92971 26719 23169 18691 19765 04879 79187 75087  
50690 05419 73560 32954 93679 92762 73905 75356 21867 78562  
47020 60643 42473 30472 54573 82701 51586 12747 28729 24251  
37685 60870 07071 85495 63124 50620  
129 46 00000

**9425 kHz, 25-02, 1730 UTC. Not heard. Very strong BC on the same frequency**

**6783 kHz, 25-02, 1800 UTC**

480 612 45

71464 61701 56287 04549 74740 57018 87647 34676 80819 42374  
71786 35870 39408 38196 90182 72434 10928 71472 56313 42462  
69731 39489 34656 59243 62148 46769 31573 34245 84134 29342  
24716 68650 57608 93290 28197 16270 04757 15716 95425 27806  
61614 65486 81241 72939 75961  
612 45 00000

**11616/9322 kHz, 02-02/03-02, 0400/0420 UTC**

480 357 60

53745 34897 25625 99357 69685 60614 91629 53089 39973 35731  
63224 79305 53189 17084 69298 20968 91698 29266 71659 56332  
67850 14377 57535 80194 23951 00616 26302 56320 88186 50670

75158 64514 03697 75817 13394 90749 72975 26689 59965 33801  
84795 96636 04069 26822 15839 98629 33374 97299 24216 01624  
59631 13825 77080 37345 96326 93118 79494 13416 68074 65748  
357 60 00000

**11616/9322 kHz, 04-02/05-02, 0400/0420 UTC**

480 192 17  
35279 04608 25391 59335 00693 98196 27012 41189 05553 34739  
42326 37707 72543 15034 87222 62779 18354  
192 17  
480 735 34  
80872 83742 93126 39360 12808 45108 25113 08575 22792 01966  
81090 31986 82744 42694 21881 83296 84212 15140 12278 89291  
50156 54297 03200 59320 76131 56958 48698 89103 43047 14274  
12517 12282 68705 38167  
735 34 00000

**11616/9322 kHz, 06-02, 0400/0420 UTC**

480 480 480 00000

**11616/9322 kHz, 09-02/10-02, 0400/0420 UTC**

480 619 57  
75092 44708 89318 37350 38957 61968 15617 20280 68121 66992  
69854 02594 62958 95699 76926 10209 35256 93044 66646 92462  
08042 30972 56872 06236 79954 48546 50098 68925 33857 14752  
36757 41205 94375 33941 20669 25501 64048 45833 10566 91134  
92779 91427 43841 62060 60277 43953 35055 28139 76174 28200  
66330 65883 27501 76661 61837 79613 28218  
619 57 00000

**11616 kHz, 11-02, 0400 UTC**

480 237 54  
[43567 05645 07436 98130 08979 18348 07245 19464 28966 98077](#)  
[70796 91041 04643 05159 48438 84067 62128 95662 22869 98485](#)  
[09116 22959 10521 39381 60661 85463 94078 48183 38921 44018](#)  
[03114 74576 76480 57331 85049 00085 77998 08924 33645 49241](#)  
19832 24022 67187 49304 92345 99820 73581 24437 14569 97567  
64515 35299 75922 69905  
237 54 00000

Different messages were sent at 0420 UTC and repeated on 12-02.

The first 40 groups of the first message are identical to the first 40 groups of the message sent at 0400 UTC

**9322 kHz, 11-02, 0420 UTC**

**11616/9322 kHz, 12-02, 0400/0420 UTC**

480 237 40  
[43567 05645 07436 98130 08979 18348 07245 19464 28966 98077](#)  
[70796 91041 04643 05159 48438 84067 62128 95662 22869 98485](#)  
[09116 22959 10521 39381 60661 85463 94078 48183 38921 44018](#)  
[03114 74576 76480 57331 85049 00085 77998 08924 33645 49241](#)  
237 40  
480 916 20  
93607 09085 73805 65750 50493 40943 59994 79890 80849 09249  
75442 83292 11364 42918 17162 98088 13126 74529 08653 19891  
916 20 00000

**11616/9322 kHz, 13-02, 0400/0420 UTC**

480 480 480 00000

**11616/9322 kHz, 16-02/17-02, 0400/0420 UTC**

480 523 60  
87723 80547 77333 23434 84068 59196 26188 00744 10696 67233  
13447 35199 87743 46152 25556 28928 50336 69008 89979 05168

19231 37414 78906 20542 30938 75886 99772 11416 38252 78260  
46030 41520 17131 85822 06622 43037 40859 01890 57569 68324  
07437 72484 84141 94477 31121 87820 07017 47907 34076 84277  
10888 41123 99048 51441 98953 38920 69022 74320 21718 96133  
523 60 00000

**11616/9322 kHz, 18-02/19-02, 0400/0420 UTC**

480 231 9  
71900 86390 19289 86600 65340 35180 16401 64064 42541  
231 9  
480 769 43  
59134 63638 10185 35842 17656 63803 52242 69375 86989 46047  
77557 47583 41949 69268 79818 09880 09473 92448 50393 70408  
21766 59118 94412 67298 05877 63954 57497 64558 39369 49937  
05317 19618 26814 09525 23167 48973 76756 88248 27758 56338  
83865 14211 08396  
769 43 00000

**11616/9322 kHz, 20-02, 0400/0420 UTC**

480 480 480 00000

**23-02: no transmissions**

**11616/9322 kHz, 24-02, 0400/0420 UTC**

480 480 480 00000

**11616/9322 kHz, 25-02/26-02, 0400/0420 UTC**

480 695 19  
01072 37700 97230 53987 44171 06413 95831 67016 33547 95047  
50804 16002 24784 61188 23376 48667 39381 01758 20316  
695 19  
480 571 32  
89888 24139 32415 00920 14146 34202 31203 60185 51841 03267  
48119 45980 03204 53548 74578 92114 95937 91901 61535 11735  
62658 90751 92867 07997 12955 42165 24482 13332 48523 27247  
00076 12033  
571 32 00000

**11616/9322 kHz, 27-02/10-02, 0400/0420 UTC**

480 480 480 00000

## ***S11a***

**10448 kHz, 03-02/06-02, 1400 UTC**

422/34 Vnimanaye  
84938 74812 74677 04435 41397 64100 42542 99127 74897 56324  
60997 36710 98846 36364 42965 80828 76846 84444 58222 20294  
47108 52241 56836 17397 88529 01779 61525 78361 91736 47543  
05535 61202 84401 57302  
Vnimanaye (message repeated) Konets

**6252 kHz, 09-02/13-02, 0915 UTC**

480/35 Vnimanaye  
50809 85324 79697 47135 46323 43850 02818 27178 77688 01983  
74304 69962 97415 67297 83858 46457 99841 53091 03284 53074  
11374 56278 78055 46980 60718 63379 10720 74098 18094 43758  
19994 62216 12680 24395 24474  
Vnimanaye (message repeated) Konets

**11559 kHz, 17-02/19-02, 0445 UTC**

796/35 Vnimanaye  
57108 95717 94103 95003 07473 02621 57823 30593 54727 36752

86389 40239 49849 60619 27571 56855 29866 42876 11139 36826  
00705 96318 08349 64158 14779 46205 53799 12300 83347 86064  
99021 03841 63836 37373 26858

Vnimanije (message repeated) Konets

**9050 kHz, 16-02/19-05, 0700 UTC**

475/34 Vnimanije

36652 03407 95882 30220 15265 89127 75795 33420 00008 55457  
94602 97914 95801 59178 39148 24079 84043 29527 73267 59610  
28509 52229 49033 17309 97903 62846 76387 42244 43770 19596  
96948 44297 11412 26532

Vnimanije (message repeated) Konets

**11559 kHz, 17-02/19-02, 0445 UTC**

796/35 Vnimanije

57108 95717 94103 95003 07473 02621 57823 30593 54727 36752  
86389 40239 49849 60619 27571 56855 29866 42876 11139 36826  
00705 96318 08349 64158 14779 46205 53799 12300 83347 86064  
99021 03841 63836 37373 26858

Vnimanije (message repeated) Konets

**11486 kHz, 18-02/21-02, 1850 UTC. See 21-02**

281/31 Vnimanije

70313 67891 96744 83439 11925 11535 08888 47042 38953 66278  
34765 82695 06110 74056 66355 73001 85397 49160 56255 43292  
51480 00724 43138 57770 69725 56772 36825 63223 19442 38884  
25274

Vnimanije (message repeated) Konets

**5371 kHz, 21-02/22-01, 0830 UTC**

371/34 Vnimanije

60742 35660 94216 43365 23966 91358 62270 50733 19829 20107  
87097 93948 34407 95161 10112 63349 64690 12725 07251 12065  
64540 50897 16811 63360 76118 33196 05392 43608 36830 08495  
37885 98378 66645 51877

Vnimanije (message repeated) Konets

**11486 kHz, 21-02, 1850 UTC. No repeat of 18-02 but a new message**

288/31 Vnimanije

18790 04578 14008 64697 28324 16224 80704 96772 80189 06001  
54993 92102 01219 48967 64077 99644 05064 77821 34423 16197  
57120 49211 64510 49869 83226 01187 71435 38387 58406 15032  
50472

Vnimanije (message repeated) Konets

**21906 kHz, 23-02/26-02, 0510 UTC**

654/34 Vnimanije

60952 26348 13067 88523 55499 66333 92756 27580 74789 20948  
83225 69235 25030 43434 66432 70055 22950 69828 82002 62664  
24926 97845 85739 10833 56365 44663 69655 24960 88265 63675  
51562 30998 36300 15313

Vnimanije (message repeated) Konets

**19515 kHz, 25-02/27-02, 0725 UTC**

385/33 Vnimanije

84319 80629 79951 46468 27315 50675 49848 57736 87292 05236  
07293 92595 08913 63240 59781 40078 96280 70057 86385 54766  
85251 84680 72486 72366 57615 12986 91787 12279 16729 09799  
98510 15136 22797

Vnimanije (message repeated) Konets

## V13 - New Star Broadcasting Station (星廣播電台 Xīngxīng guǎngbò diàntái)

Transcripts and notes by FSpY. Many thanks !

### 15890 kHz, 25-01, 0000 UTC. New Star Broadcasting. Station 3

Unit IDs: 2933, 5332, 8310

Group Counts: 30, 35, 34

8260 6556 8028 8695 6440 7249 1594 9705 9100 8288  
6565 1569 6931 1981 4008 5342 3267 5930 9197 1818  
7832 5704 6022 5306 1302 8343 1016 2724 2585 4388

5580 8811 0248 7265 8302 1831 2998 2103 6245 2383  
5232 1472 8770 9868 0697 0389 0438 2133 1853 1835  
7052 7544 9947 7827 8230 3949 1248 1592 3438 0218  
9717 6885 3208 6298 7819

5462 5814 8445 0915 8968 1923 9169 9214 6908 3478  
2429 4775 0098 4867 8787 3117 3848 0979 9054 9943  
9496 9974 3967 2473 4119 1727 5959 9060 2321 6567  
7443 2261 8544 4473

Note: very intense background humming today.

### 18040 kHz, 25-01, 0030 UTC. New Star Broadcasting. Station 4

Unit IDs: 0403, 2682, 7254

Group Counts: 32, 32, 34

7604 0532 2172 0091 6090 3365 2416 7159 2930 5669  
4107 2092 8680 0697 9402 1103 6672 5992 4854 5974  
9143 5806 2008 7936 7010 1935 9840 6840 6050 3444  
0559 3166

3408 2287 9454 6946 7413 0168 4120 9917 9958 6621  
6479 4882 0146 4539 0137 3031 8803 9598 5006 9768  
5209 4062 9073 1262 3026 9222 4164 2576 8220 5849  
8801 4141

8538 6167 7407 5646 6743 1833 1081 7867 7021 6000  
1760 1784 0099 2187 8738 8801 2133 1452 2660 8795  
4023 3237 3539 0787 0765 8443 0591 4766 6074 3579  
2735 2718 2374 1008

### 21000 kHz, 27-01, 0100 UTC. New Star Broadcasting. Station 1

Unit IDs: 1146, 2154, 3845

Group Counts: 33, 34, 30

5668 9772 8872 3875 3671 8688 4178 6202 9600 0077  
0173 7542 9590 7875 7929 2147 9180 9400 8505 8685  
4801 0380 0815 5845 0625 8807 0090 9185 2359 3590  
6405 9558 4638

0712 1842 6417 4375 6979 4784 2290 2322 4318 9796  
7452 2222 2299 6092 1774 5738 9273 8157 3874 7075  
4532 4320 4782 2701 7384 7538 3132 8914 9586 1214  
3566 1918 6083 8360

9908 2933 1809 4651 5610 8828 6053 9051 7003 1261  
8491 6072 2731 9419 5515 2612 6680 3391 3041 9893  
8275 1210 0522 1673 5794 8517 7407 2574 1907 9926

**16050 kHz, 25-01, 0200 UTC. New Star Broadcasting. Station 5**

Unit IDs: 0522, 0600, 5454

Group Counts: 35, 34, 34

6579 9917 2537 7502 7585 2346 8885 7209 7931 2292  
2944 1903 1796 3154 6093 8872 6258 5286 0169 5412  
0211 1846 4593 4018 6071 2544 3797 0944 3065 9394  
5741 3992 8863 6419 1375

2517 5984 8875 3888 5187 3881 8645 2178 3999 3931  
7843 3287 3781 8055 8910 8389 7340 6945 2888 6778  
0322 0061 6365 4075 3505 5385 1292 2286 3306 4533  
0585 9969 1479 5808

9792 9569 3023 2649 1711 3025 2195 1998 6334 7592  
3189 4595 3768 7547 5968 8986 2222 4077 3172 1199  
5135 2781 9188 9997 1248 8300 0212 8359 0006 9010  
6121 5991 0995 6982

**8300 kHz, 25-01, 0230 UTC. New Star Broadcasting. Station 2**

Unit IDs: 0931, 1563, 6931

Group Counts: 32, 34, 33

5128 7496 7394 9726 4518 5736 1394 4842 3991 4660  
7455 3131 4838 8288 9766 2919 9867 2142 6973 7479  
5422 8530 0620 4696 5393 2355 4451 9702 7374 5554  
8749 4855

7660 1971 0133 8607 9304 8442 9354 0106 1410 5377  
7850 5053 1351 5855 3993 1372 8337 1237 7902 0046  
8386 3830 3233 8713 6618 7507 6220 5008 8379 8734  
9526 6211 3084 9971

7892 2707 7704 8610 3923 4570 4385 5458 6863 7377  
6874 8558 3683 2568 8365 5092 0115 3716 7781 3437  
9068 4621 5237 6981 9287 1653 4946 1141 4057 6661  
4559 6259 9717

29-01 note: Station 2 and 3 carrier only since Wednesday. Station 5 appears to have stopped transmitting on the late night slots.

CryptLab and I have noticed a few interesting changes in the transmission schedule. Specifically, only 2 stations broadcast on any given time slot now, as opposed to 3 stations on some of the slots before. They have also added transmission slots on 4z and 6z for stations 4 and 5. Also, ever since they reduced the simultaneous stations to only 2, transmission strength has improved greatly! All of them are so much more powerful and easy to hear. So, here's the current early morning schedule we have both observed:

0000 and 0030z:

- Station 1, 19052

- Station 3, 15890

0100 and 0130z:

- Station 1, 20025 (no longer 21000)

- Station 3, 18040

0200z and 0300z slots are unchanged.

0400, 0430z, 0600 and 0630z:

- Station 4, 20025

- Station 5, 16050

**15890 kHz, 01-02, 0000 UTC. New Star Broadcasting. Station 3**

Unit IDs: 1929, 8302, 9079

Group Counts: 35, 31, 35



4846 1923 3179 9158 2626 5866 8463 1804 9662 6300  
0733 8408 4874 5188 1815 8222 0966 8185 1737 7665  
2175 7446 5549 1512 3825 0774 4026 8985 3228 6242  
2297 5433 8529 5866 0136

5950 5535 2153 9421 2361 5782 3194 4029 9793 1010  
6553 0700 6094 4752 0743 8017 6781 2853 1414 1288  
5294 3731 7882 6759 9522 9365 2088 6009 5095 0834  
7247

2611 7775 9851 0090 5022 6973 9870 3221 7393 1403  
9053 0590 8225 8389 6877 4576 2505 1812 6991 8923  
2960 6724 0576 6206 6430 9869 6590 1892 3644 1668  
0414 7562 8304 4213 4976

**19052 kHz, 01-02, 0030 UTC. New Star Broadcasting. Station 1**

Unit IDs: 1411, 3146, 7142

Group Counts: 32, 32, 33

3908 4614 0262 3202 9928 8766 7340 1654 4145 5455  
4238 4966 6443 8403 2992 2214 9662 2812 3595 5597  
3379 3774 2855 3750 4765 2836 5302 5996 2226 1981  
9083 3743  
8965 7082 9590 0119 1576 0900 0567 8572 9396 5758  
4678 8363 0730 9821 3101 3511 2423 2410 9957 4374  
2030 6532 8473 8855 1322 6047 8665 1790 4478 0635  
4694 8455

6916 1894 3384 0875 3694 5528 4747 9714 3201 9299  
4384 3116 4797 7537 3777 0122 0203 7072 2904 9703  
4327 6279 3678 6592 4246 3314 8261 9099 0158 6426  
4997 6352 5549

**20025 kHz, 01-02, 0130 UTC. New Star Broadcasting. Station 4**

Unit IDs: 0707, 7362, 8278

Group Counts: 31, 30, 31

4378 6581 8297 7185 2433 9807 6308 3718 3747 5943  
1836 8975 4063 0560 4026 5811 1259 7799 1543 7849  
7558 0955 5715 3443 4687 4078 4976 4191 7001 5708  
1422

5183 6158 6776 1291 8163 0515 9307 3871 9729 2290  
0489 5766 3543 2389 0755 4908 5868 6264 0873 8297  
2621 8845 8076 2460 3108 8841 0028 0194 9251 8940

7543 5519 6050 0821 7409 2050 2712 9920 3009 0483  
6111 3446 9089 3573 1884 9335 8519 8215 4105 9040  
6340 0236 9380 9786 4022 1729 5310 3382 8901 1088  
4586

**16050 kHz, 01-02, 0200 UC. New Star Broadcasting. Station 5**

Unit IDs: 0049, 2859, 9175

Group Counts: 35, 32, 33

6480 3542 3238 7765 1008 0676 4001 3523 8394 8560  
6729 2797 1809 7830 1323 5770 3034 1946 3293 0891  
8362 1034 0372 1319 2532 5251 5590 0634 7553 5285  
3361 8622 8782 3084 9062

1543 6766 1586 5870 2272 4220 6724 6179 5192 9646  
8249 1208 7166 1228 8899 7065 9143 4523 2999 9894  
1040 4680 4781 3848 3930 0135 0890 8888 9537 3402

5943 4423

6772 6437 5073 0409 3604 2038 6169 5848 0054 8014  
0175 0085 5289 1260 5040 5997 9136 5367 1270 3301  
6349 7795 6533 9919 2145 1963 4263 6145 8231 6780  
3056 9258 2034

**15890 kHz, 08-02, 0030 UTC, AM/USB. New Star Broadcasting. Station 1**

Unit IDs: 2293, 5864, 8811

Group Counts: 33, 31, 33

4793 4062 6696 2700 8820 0414 5299 1484 8515 7522  
7533 5524 1092 8661 9096 1184 4698 2354 8754 8716  
2845 5007 3340 5991 0091 4036 0615 3080 1869 8784  
3139 4148 5586

1774 0321 7228 8200 3387 0221 3648 8853 3829 4136  
8645 9488 2034 2625 4320 8576 0754 8038 6720 0908  
2609 9607 0171 1313 0242 2583 7379 3935 0829 6628  
6359

2408 3099 0985 1831 6492 9132 8665 3334 8854 1052  
8998 3546 2032 8491 5352 6718 4651 2661 (record  
scratch like noise, pause) 9183 3643 5085 6574 0628  
7446 6693 7969 1760 1663 9466 0431 2564 0606 0888

Notes: EXTREMELY powerful signal strength from Daegu in South Korea, hovered at +40 dBm and made my headphones rattle in both AM and USB. During the third message, there was a sudden pause between groups that was preceded by a noise like a record scratch.

**20025 kHz, 08-02, 0100 UTC, USB. New Star Broadcasting. Station 3**

Unit IDs: 2002, 2895, 5575

Group Counts: 33, 32, 30

4424 0790 5297 1276 4259 4958 7569 7561 2090 6527  
7288 8303 9946 0144 1003 7525 1825 8911 3857 4420  
9922 0097 0997 0729 9005 3392 3772 5277 3042 1257  
4793 9177 7821

0973 6415 4179 8714 2817 5078 3867 3678 0621 6796  
5409 8666 4739 4740 3883 6177 3060 0905 4998 0097  
6591 7838 2180 8642 3121 9515 4872 0179 4549 7114  
2411 2002

0760 1136 2764 4971 6676 3125 1834 5386 7778 6448  
9399 6247 6661 8945 9762 8240 8242 9705 0610 8412  
6764 0713 3241 6952 3263 2512 0847 2259 5554 9917

Note: this is normally the slot for station 4 at this time. However, the opening announcement said it was station 3, even though I had just heard it on 15890. I double checked on the next transmission, it still said station 3. Does it send two batches of messages now?

08-02, 0130 UTC: Carrier only on 21000. A very strong carrier, but no message. CryptLab has stated that station announcements and slots have been somewhat random lately, and only two stations broadcast on any given slot.

**8300 kHz, 08-02, 0200 UTC, USB. New Star Broadcasting. Station 2**

Unit IDs: 0812, 4086, 5306

Group Counts 30, 31, 35

0304 4428 3306 9500 4661 1712 6594 8195 4624 4565  
3007 3694 3219 6615 8218 8615 5405 6124 6927 9961  
1520 4703 2797 3352 8374 9958 3051 7716 7372 3550

1005 8258 7367 7409 3615 1423 4562 6258 9389 7677

1793 4881 2309 9053 6691 1704 5756 6035 4103 7565  
6530 6019 8663 5453 2865 8917 4836 7416 2218 3120  
0839

5544 8654 9716 8053 7007 4755 2755 7180 0280 6046  
5230 1204 9587 6103 2621 1315 8790 3885 2994 8707  
0772 4511 8919 6396 3954 3599 8807 4209 5549 7511  
3043 3177 9888 5185 9806

**20025 kHz, 11-02, 0130 UTC, USB. New Star Broadcasting. Station 4**

Unit IDs: 0713, 1502, 5613

Group Counts: 32, 35, 32

4914 6716 8033 4972 0128 7149 4014 5162 5931 5275  
5870 9707 9995 5334 9420 8906 6174 9738 0593 2760  
0229 6051 7880 4049 1063 1523 4861 5366 8450 8398  
8567 4146

8604 4900 8920 9632 1798 2383 8585 0837 6083 9527  
2913 9605 3325 1220 3067 3429 3391 7667 7301 5043  
2746 9729 7627 4696 9315 3909 3919 5525 5158 4442  
0061 2041 1892 0272 2306

0984 2535 3862 0091 9615 2625 8652 3465 4014 4419  
9326 1214 2364 3678 8959 0141 6161 8486 1651 5091  
6858 4080 4630 0851 4628 5545 3597 9025 7424 0082  
8089 3087

Note: all stations seem to be back on their normal slots and frequencies today. I picked up station 4 best from the Philippines.

**15890 kHz, 15-02, 0000 UTC, USB. New Star Broadcasting. Station 3**

Unit IDs: 0587, 1766, 2943

Group Counts: 33, 31, 34

9385 3950 5139 9707 5260 4216 5347 9553 7874 3694  
1270 3881 1390 3688 4170 6442 8750 7674 1385 0215  
5856 6336 5270 1520 6898 3759 6130 5117 3171 0832  
2863 2190 0597

1689 0162 4054 7689 6798 1488 4182 1979 7399 6139  
8329 9785 6510 9686 9355 7531 0795 9122 3977 2996  
6926 8022 4276 5377 0234 4875 8939 7589 4750 0796  
3431

8484 0897 6294 8543 6965 3816 5168 0829 0141 8564  
0717 3072 4556 5348 8712 4626 0339 4043 7541 4219  
4531 7398 4673 2865 1728 5788 6385 1967 0647 3591  
5441 2298 6259 4848

**19052 kHz, 15-02, 0030 UTC, USB. New Star Broadcasting. Station 1**

Unit IDs: 3369, 4666, 7002

Group Counts: 30, 34, 32

7011 2899 2093 5729 3150 2176 3061 8386 1177 2345  
5107 1629 9849 6065 1647 9696 6291 4283 3633 0426  
3743 4284 1726 9513 4954 5225 9697 4502 7378 8171

9393 7269 1455 3406 7241 2892 3394 4583 0249 2579  
6884 5660 4926 7738 1157 1128 7541 5956 6512 3307  
3929 4768 7938 0846 7876 4261 3422 7057 6959 7149  
8779 3644 8341 3267

3370 9456 6218 2264 8729 4718 3280 6456 6812 0861

6506 3475 8722 2577 6580 1491 1559 3639 3127 3127  
7718 6182 6830 9541 9071 7700 6158 0307 9933 2533  
9969 7066

Note: groups 19 and 20 in the third message are identical.

Note: on the 0100z and 0130 slots, station 1 transmitted on 20025 which is usually used for station 4 during this time.

**8300 kHz, 15-02, 0200 UTC, USB. New Star Broadcasting. Station 2**

Unit IDs: 0019, 2836, 7968

Group Counts: 33, 33, 33

9130 0720 3286 7060 8897 4696 4890 3122 4592 0426  
3122 9163 1244 0038 4285 4113 0755 7828 8406 2869  
6253 7453 7189 7245 3179 2552 7433 6453 5171 9126  
6065 0201 8366

4606 6900 5795 9900 1692 0082 3593 6482 2053 5036  
6926 4517 1409 9834 9242 9291 3414 3989 3923 9396  
4471 1616 7963 8479 8530 6219 7810 7587 5257 3393  
1192 0553 7510

5706 6644 4165 8957 2905 7003 7595 7321 1082 1983  
4003 2718 7753 4599 6951 0194 1561 6214 4081 5981  
1523 3239 3027 9435 1419 7950 7223 6979 2143 3544  
8894 7020 9029

Note: carrier was intermittently cutting out.

**16050 kHz, 15-02, 0600 UTC, USB. New Star Broadcasting. Station 5**

Unit IDs: 4746, 7389, 9057

Group Counts: 32, 34, 33

0616 1452 6609 7043 6991 1902 7620 5208 8673 7198  
0186 5993 9659 4310 8235 1191 9667 1159 2199 0476  
8434 5275 5046 5430 3411 6666 8200 6403 3517 3051  
6451 9541

6388 7551 9720 3956 5811 1831 3365 8756 6041 4463  
4673 2997 2877 3585 7219 2905 9807 4119 2172 6998  
6423 8581 0189 8576 8379 4652 4931 3062 8448 6282  
7168 9288 9757 9820

9728 1423 3108 1844 1350 4932 4330 7016 8469 8900  
9916 2392 2319 2026 1708 3294 5648 0363 7566 6336  
3597 0389 0408 1067 8671 8997 7847 1838 8116 1813  
3362 8601 0461

**20025 kHz, 15-02, 0630 UTC, USB. New Star Broadcasting. Station 4**

Unit IDs: 1285, 4671, 5790

Group Counts: 34, 31, 35

8826 6656 0474 3335 0784 5872 3695 5930 1374 7472  
6091 1443 3474 6587 6111 1522 9079 1533 1322 9840  
0417 4770 9508 2640 9613 2550 7093 6022 0139 9763  
9067 4492 3118 1116

6244 6467 1738 9337 8804 9789 1218 2388 7231 4299  
3161 7810 9066 5496 5008 3505 1773 3405 8255 9948  
8356 7924 5369 0607 5085 3511 2684 5405 4035 4004  
4062

2141 5903 1430 5800 6115 0297 8408 5146 6611 0809

0225 5085 6658 0127 9283 9242 2677 6932 9138 4764  
2958 3772 8872 2157 7400 7200 1966 9524 9914 2259  
9715 1433 3336 2757 5852

**15890 kHz, 22-02, 0000 UTC, USB. New Star Broadcasting. Station 3**

Unit IDs: 3147, 5960, 8796

Group Counts: 32, 30, 30

5598 5823 4448 4821 6187 1082 0055 7141 6507 3268  
2232 0569 0690 6017 6883 6734 5549 8019 3786 2747  
4987 1924 3349 2288 3837 3700 0506 2461 7622 4257  
3401 4089

8096 5048 4463 3619 7507 5301 3913 8698 9762 1662  
1964 6652 9848 0186 2291 3644 (a few seconds of silence)  
3803 6610 4469 6676 6163 1699 4543 3968 9053 9140  
8168 7663 6307 3185

7143 2147 3248 0050 4128 4931 9367 6421 5507 5534  
9290 0815 4629 7785 1011 2249 1683 6792 6351 7360  
5747 5732 8812 2740 2967 8916 5387 8709 5193 9223

Note: short burst of data or what appeared to be FSK at the end of the transmission. Also, during the second message, the station briefly went silent after group 16.

**19052 kHz, 22-02, 0030 UTC, USB. New Star Broadcasting. Station 1**

Unit IDs: 2189, 6520, 7915

Group Counts: 32, 34, 33

7985 3359 3672 0764 5127 8413 2748 3989 2811 3996  
6908 7317 0251 8110 8983 9688 0326 3180 8927 9033  
0851 2839 6807 7005 0120 4264 9382 0803 5362 3365  
1420 6518

0121 2787 8526 4993 6942 7890 9196 6632 0745 7353  
6888 8282 8049 9532 2684 0785 9230 5955 3857 1407  
5962 0016 8164 4856 4617 5337 9891 7675 3110 5577  
1083 5800 0107 8248

5427 9281 4390 3307 0161 7900 9873 2276 0161 1568  
4220 9357 9682 0565 2119 1554 7053 2056 6757 3855  
0443 3484 9386 1078 8562 6022 3521 4800 0307 2217  
7470 5521 7570

Note: the 0100z slot for station 1 has moved from 21000 to 20025.

**22-02: Station 2 carrier only.**

**8300 kHz, 22-02-2026 0230 UTC, USB. New Star Broadcasting. Station 2**

Unit IDs: 2658, 3763, 8626

Group Counts: 34, 33, 34

8652 3817 3402 3693 9913 3562 8933 3514 7488 9899  
2087 1559 6174 3803 9706 6901 3787 5463 9592 0565  
3280 8094 3290 9364 1397 4408 4355 1819 7434 8849  
2495 8848 0442 9641

3279 3492 5349 2263 8935 0885 9410 6636 4358 4938  
1367 1836 7013 5210 8096 7298 8544 0434 8997 7969  
2826 1968 2376 2470 1986 8149 3332 6426 9034 2678  
2547 8253 7301

7095 7144 8091 7944 5389 6873 4634 5402 3523 3195

7452 3187 0884 4643 8745 1885 4561 5911 0224 8734  
2866 7396 8786 4436 5530 8056 1312 6852 0640 3505  
4338 8239 6386 6099

### 16050 kHz, 24-02, 0400 UTC, USB. New Star Broadcasting. Station 5

Unit IDs: 4109, 9108, 9434

Group Counts: 30, 34, 33

1759 5339 3149 1600 0683 1358 4709 0855 3383 1967  
6210 5522 6509 6413 9744 3457 6223 2478 9624 6855  
0289 4108 6598 0942 6969 3893 3357 9253 4862 9190

0451 6687 0059 9354 4971 3992 6320 6113 6729 7224  
1308 4976 7230 0385 6880 0336 0176 2053 2011 6119  
4935 6207 2389 1577 9266 7975 3069 5333 7290 5781  
0065 3728 5901 7902

9804 1732 0290 3210 0236 6843 6523 1085 7136 8786  
6885 2138 8399 3033 6559 9664 2798 1215 7400 8806  
2296 2872 (4 seconds of silence) 0981 6328 9651  
6741 6414 4211 7229 4893 9646 0831 4360

## V28 - 앵무새 Aengmusae (Parrot)

After a long time some V28 logs, thanks to HK.

|                                 |                                                  |
|---------------------------------|--------------------------------------------------|
| 3039.4 kHz, 23-02, 2100 UTC, AM | Parrot, messages in Korean                       |
| 5501.4 kHz, 23-02, 2104 UTC, AM | Parrot, messages in Korean                       |
| 5218.4 kHz, 26-02, 0856 UTC, AM | Parrot, messages in Korean. Male operator        |
| 5490.8 kHz, 26-02, 0856 UTC, AM | Parrot, tests in Korean 1,2,1,2... Male operator |
| 5491.4 kHz, 26-02, 0900 UTC, AM | Parrot, messages in Korean. Female operator      |
| 5225.0 kHz, 26-02, 0900 UTC, AM | Parrot, messages in Korean. Male operator        |

## V32 - FARSI station

linkz found a numbers transmission in Farsi on the day the war with Iran began. The station has daily transmissions at 0200 and 1800 UTC.

Messages begin and sometimes end with the word توجه Tavajjoh, meaning Attention. The language used is Farsi (Persian). Messages consist of strings of figures. The grouping varies. In the background you can hear dual-tone beeps.

The transmissions are beamed towards Iran. It is unclear who is behind the station. It seems to come from a location in Western Europe.

7910 kHz, 28-02, 1800 UTC



7910 kHz, 01-03, 1800 UTC



### Farsi numbers

|   |               |
|---|---------------|
| 0 | (sefr) صفر    |
| 1 | (yek) یک      |
| 2 | (do) دو       |
| 3 | (se) سه       |
| 4 | (chahâr) چهار |
| 5 | (panj) پنج    |
| 6 | (shesh) شش    |
| 7 | (haft) هفت    |
| 8 | (hasht) هشت   |
| 9 | (noh) نه      |

### AI transcript of the messages from 1 March.

#### Translation

[...] means unable to transcribe

Attention Attention Attention

1 0 5 0 6 3 8 8 4 8 2 7 7 2 1 2 9 9 8 7 5 3 1 3 [...] 6 3 1 2 3 5 0 4 2 0 7 1 2 7 4 7 1 6 [...] 5 1 2 0 6 0 9 9 1 6 2  
9 2 5 4 1 6 0 6 8 0 7 1 0 1 8 3 2 0 4 6 7 8 8 5 1 0 1 7 8 2 4 [...] 8 4 0 6 3 0 2 2 6 0 1 7 1 1 5 9 9 0 8 5 6 1 0 3  
6 3 0 7 8 5 3 4 7 9 5 0 4 0 1 5 0 0 7 7 5 4 0 4 9 2 3 6 5 0 1 7 4 9 1 6 2 4 0 4 0 2 6 0 7 8 9 5 7 0 7 4 7 5 4 5  
8 1 5 4 3 3 1 6 7 6 9 1 8 6 3 3 2 3 7 9 1 4 0 4 0 6 4 2 1 0 2 0 5 8 5 1 8 0 7 6 4 5 1 2 6 1 [...] 9 3 9 0 7 3 7 5 2  
1 3 3 3 4 1 1 1 6 8 5 3 1 8 2 9 8 2 2 1 7 9 9 3 3 3 1 7 1 8 [...] 0 6 5 9 1 4 6 8 5 1 7 7 8 0 0 8 3 2 3 8 3 7 1 5 1

5 8 0 5 2 6 5 6 6 4 0 7 8 6 0 1 6 3 4 1 6 [...] 6 8 1 0 4 2 6 0 2 5 0 5 4 6 3 4 8 7 7 8 1 5 2 4 3 2 6 0 0 8 3 8 3  
2 7 6 2 0 7 7 [...] 6 1 0 7 5 7 1 0 2 6 7 4 4 4 4 1 4 0 5 0 7 2 1 3 4 8 [...] 0 1 [...] 8 5 6 6 8 [...] [...] 4 4 3 5 1 4 2  
7 3 8 5 6 5 1 1 [...] 4 3 7 2 1 [...] 1 2 2 5 7 1 1 3 6 4 1 0 6 7 6 5 [...] 5 7 7 0 6 7 3 [...] 6 2 7 2 2 5 6 5 4 3 1 0 2  
6 5 5 3 5 0 5 [...] 2 6 2 0 8 1 2 [...] 3 0 1 3 0 8 3 6 7 1 6 5 3 6 2 [...] 8 3 6 6 6 0 6 4 [...] [...] 6 2 2 1 4 1 1 0 1 3  
2 6 1 6 0 0 6 3 8 5 4 4 2 0 3 6 0 [...] 0 4 4 3 6 6 2 1 6 4 7 2 6 2 8 4 4 8 [...] 0 3 [...] 1 7 6 1 6 0 3 5 2 2 4 0 7  
8 [...] 1 [...] 2 5 0 7 7 1 [...] 8 0 4 6 3 1 3 4 3 7 6 8 [...] 2 7 6 0 7 5 0 0 3 8 [...] 5 6 0 2 6 2 4 7 3 2 0 7 1 3 4 4 1  
4 [...] 6 1 8 0 0 6 0 1 0 6 0 7 2 4 3 8 6 1 8 0 4 8 4 8 3 6 2 6 1 5 7 6 1 3 4 3 4 7 4 6 8 0 0 7 6 7 4 7 6 4 0 0 1  
7 3 2 0 1 1 1 3 5 6 1 4 1 6 3 0 1 7 7 1 [...] [...] 1 5 8 3 2 7 7 7 8 8 7 5 7 3 8 0 3 [...] 3 6 [...] 5 4 8 7 5 2 7 6 [...] 6  
6 [...] 7 8 2 3 1 [...] 0 [...] 7 3 1 6 0 8 7 2 4 0 2 [...] [...] 8 1 5 0 0 [...] [...] 0 6 8 2 0 6 0 1 8 8 4 5 5 0 2 2 3 [...] 0  
8 6 3 7 8 0 4 2 [...] 4 6 1 0 3 3 0 8 5 1 0 6 6 0 1 2 7 3 1 7 3 7 0 7 8 4 4 6 4 2 [...] 1 1 0 6 3 5 1 5 3 0 6 5 3 8  
0 [...] 3 7 2 4 5 0 1 5 3 4 2 3 3 6 5 4 4 5 3 0 [...] 3 6 6 2 0 2 4 6 2 [...] 2 8 2 7 4 1 0 8 5 7 6 [...] 7 1 3 [...] [...] 3  
5 0 7 3 3 8 3 4 2 3 5 [...] 7 [...] 3 6 3 3 0 0 6 4 4 [...] 3 6 [...] 2 2 5 0 2 5 2 7 4 1 8 6 3 6 3 8 3 2

Attention Attention Attention



## MORSE STATIONS

### MX

Frequencies for beacon “V” for February 2026: Thanks to CK.

Fast beacon: 3657.0 (n), 5342.0 (d) / Slow beacon: 4768.5 (n), 7611.0 (d)

We expect a change to springtime frequencies on March 1st.

The slow “V” is probably a marker. When it switches frequency (day->night or night->day), there is a call-up to a network by a four character callsign. The fast version could be a propagation beacon as no traffic has been heard so far.

Beacon “P” had some problems and sends on a new, or wrong, frequency. It’s normal frequency is 5153.8 and it sends now on 5351.8 kHz. It also sent faulty letters. Of course, we do not know whether the incorrect letters were broadcast deliberately or whether it was a mistake.

|                             |                                     |
|-----------------------------|-------------------------------------|
| 5351.8 kHz, 06-02, 0512 UTC | Non-stop 1                          |
| 5351.8 kHz, 07-02, 0501 UTC | Non-stop 1                          |
| 5351.8 kHz, 09-02, 0501 UTC | Non-stop 1                          |
| 5351.8 kHz, 10-02, 0508 UTC | Non-stop GPP (R)                    |
| 5351.8 kHz, 11-02, 0507 UTC | Non-stop GPP (R)                    |
| 5351.8 kHz, 12-02, 0513 UTC | Non-stop GPP (R)                    |
| 5351.8 kHz, 13-02, 0500 UTC | i.p. GPP (R) non-stop               |
| 5351.8 kHz, 13-02, 0500 UTC | i.p. GPP (R) non-stop               |
| 5351.8 kHz, 14-02, 0500 UTC | i.p. GPP (R) off at 0736z           |
| 5351.8 kHz, 15-02, 0446 UTC | Non-stop GPP. Off at 1220z          |
| 5351.8 kHz, 16-02, 0526 UTC | Non-stop IPP P (R). Off at 0841z    |
| 5351.8 kHz, 18-02, 0514 UTC | Non-stop IPP P (faded out at 0859z) |
| 5351.8 kHz, 19-02, 0505 UTC | Non-stop IPP P (faded out at 0859z) |
| 5351.8 kHz, 20-02, 0457 UTC | Non-stop P                          |
| 5351.8 kHz, 21-02, 0520 UTC | i.p. non-stop P                     |

#### Beacon round-up

|                             |                                     |
|-----------------------------|-------------------------------------|
| 4558.3 kHz, 22-02, 1549 UTC | Beacon K, Petropavlovsk Kamchatskiy |
| 4558.4 kHz, 22-02, 1549 UTC | Beacon M, Magadan                   |
| 5153.7 kHz, 22-02, 1742 UTC | Beacon D, Sevastopol                |
| 5153.9 kHz, 22-02, 1541 UTC | Beacon S, Sevoromrsk                |
| 5154.1 kHz, 22-02, 1541 UTC | Beacon A, Astrakhan                 |
| 5154.3 kHz, 22-02, 1549 UTC | Beacon K, Petropavlovsk Kamchatskiy |
| 5156.8 kHz, 22-02, 1542 UTC | Beacon L, St Petersburg             |
| 5351.8 kHz, 22-02, 1543 UTC | Beacon P, Kaliningrad               |
| 7508.7 kHz, 22-02, 1540 UTC | Beacon D, Sevastopol                |
| 7508.8 kHz, 22-02, 1540 UTC | Beacon P, Kaliningrad               |

|                              |                                     |
|------------------------------|-------------------------------------|
| 7508.9 kHz, 22-02, 1540 UTC  | Beacon S, Sevoromrsk                |
| 8495.1 kHz, 22-02, 1537 UTC  | Beacon A, Astrakhan                 |
| 8494.7 kHz, 22-02, 1537 UTC  | Beacon D, Sevastopol                |
| 8494.8 kHz, 22-02, 1537 UTC  | Beacon P, Kaliningrad               |
| 8494.9 kHz, 22-02, 1537 UTC  | Beacon S, Sevoromrsk                |
| 8495.1 kHz, 22-02, 1746 UTC  | Beacon A, Astrakhan                 |
| 8495.2 kHz, 22-02, 1549 UTC  | Beacon F, Vladivostok               |
| 8495.3 kHz, 22-02, 1549 UTC  | Beacon K, Petropavlovsk Kamchatskiy |
| 8497.8 kHz, 22-02, 1542 UTC  | Beacon L, St Petersburg             |
| 8495.4 kHz, 22-02, 1549 UTC  | Beacon M, Magadan                   |
| 10781.3 kHz, 22-02, 1549 UTC | Beacon K, Petropavlovsk Kamchatskiy |
| 10872.0 kHz, 22-02, 1536 UTC | Beacon C, Moscow                    |
| 10871.7 kHz, 22-02, 1536 UTC | Beacon D, Sevastopol                |
| 10871.8 kHz, 22-02, 1536 UTC | Beacon P, Kaliningrad               |
| 10871.9 kHz, 22-02, 1536 UTC | Beacon S, Sevoromrsk                |
| 13528.0 kHz, 22-02, 1534 UTC | Beacon C, Moscow                    |
| 13527.7 kHz, 22-02, 1534 UTC | Beacon D, Sevastopol                |
| 13527.8 kHz, 22-02, 1534 UTC | Beacon P, Kaliningrad               |
| 13527.9 kHz, 22-02, 1534 UTC | Beacon S, Sevoromrsk                |
| 16332.1 kHz, 22-02, 1532 UTC | Beacon A, Astrakhan                 |
| 16331.7 kHz, 22-02, 1532 UTC | Beacon D, Sevastopol                |
| 16331.9 kHz, 22-02, 1532 UTC | Beacon S, Sevoromrsk                |
| 20047.7 kHz, 22-02, 1535 UTC | Beacon D, Sevastopol                |

## M01

### 5465 kHz, 01-02, 0700 UTC

197 589 589 30 30 = =  
 67687 09867 30390 57687 35435 38690 33869 67685 40978  
 06547 78765 30978 86789 48756 20978 59587 33879 06533  
 10967 37658 58769 26545 11765 86987 50598 67354 18556  
 30978 33987 50978  
 589 589 30 30 000

### 5320 kHz. 03-02, 1800 UTC

197 374 374 30 30 = =  
 47564 09976 36543 19933 33654 90221 47655 11900 35643 98765  
 26351 27365 94764 29871 45641 47653 86951 07632 37211 04341  
 74653 90211 46532 89541 85643 01871 36521 46534 94764 03766  
 = = 374 374 30 30 000

### 4490 kHz, 03-02, 2000 UTC. Error in red

197 917 917 30 30 = =  
 93765 01909 35467 18765 27345 01099 43764 21982 44653 85764  
 45362 18762 **094444** 09444 75612 46457 93741 30093 83432 22113 90487  
 19263 90381 49855 39423 57791 40851 45377 25412 00291 93765  
 = = 917 917 30 30 000

### 4490 kHz, 05-02, 2000 UTC. Error in red

197 185 185 30 30 = =  
 50603 29580 **298580** 75049 63803 10197 04080 38604 28604 39605 28547  
 58903 17590 28407 03069 08604 93602 18406 28508 68206 08029  
 49089 24012 86090 18593 29085 05083 32180 48703 28560 39680  
 = = 185 185 30 30 000

### 5810 kHz, 07-02, 1500 UTC. Different repeat in red

197 831 831 30 30 = =  
 19376 37654 00336 19287 11007 34215 32166 46466 29005 34422  
 81122 37674 38996 90231 22865 10198 49487 10026 33216 19654  
 92742 **92342** 10021 49471 33271 28223 01176 17254 01765 11882 16543  
 = = 831 831 30 30 000



**5465 kHz, 08-02, 0700 UTC**

197 844 844 30 30 = = =  
 39476 03645 18662 94756 18833 06764 38765 19476 90453 27634  
 36441 85766 90454 95647 27344 50987 29008 17656 94001 26543  
 28890 37651 22661 38476 01765 22892 35463 57875 01765 26541  
 = = = = 844 844 30 30 000

**5320 kHz, 10-02, 1800 UTC. Different repeat in red**

197 241 241 30 30 = =  
 42144 78872 76523 85852 95257 67577 85288 65741 65722 82757  
 26858 26566 55523 09901 76564 88751 82578 74742 56561 47244  
 73658 41255 72477 65721 12312 65272 26522 25769 **79** 75234 26522  
 = = 241 241 30 30 000

**4490 kHz, 10-02, 2000 UTC. Errors in red**

197 521 521 30 30 = =  
 53767 85685 85850 23442 85858 93585 75235 83573 76789 87600  
 36578 75365 23451 85732 65341 54641 67891 78432 65731 12332  
 34431 45614 67881 54381 95883 75670 **5670 0987 987** 75823 75751 7575  
 = = 521 521 30 30 000

**4490 kHz, 12-02, 2000 UTC**

197 712 712 30 30 = =  
 09301 57003 22869 47290 40390 13570 37506 19470 05049 29604  
 45108 06835 06831 60490 20305 19680 48260 78930 02061 84295  
 52090 17830 02690 46810 56040 28671 58790 25480 40710 58208  
 = = 712 712 30 30 000

**5810 kHz, 14-02, 1500 UTC. Different repeats in red**

197 901 901 30 30 = =  
 89980 90901 88774 56781 93539 75751 95370 35763 **25763** 57532 57001  
 36533 65838 67533 57589 73562 57573 57124 75335 65791 65377  
 99082 88912 **988912 88912** 34435 67764 65657 83677 65652 91919 47288 75752  
 = = 901 901 30 30 000

**5465 kHz, 15-02, 0700 UTC**

197 775 775 30 30 = =  
 45654 67788 93572 57571 39009 75832 75790 73121 74588 47983  
 38589 75733 76789 88997 75379 99932 78645 79092 75385 75799  
 58893 09890 67542 87644 76863 43522 75835 38572 57571 75899  
 = = 775 775 30 30 000

**5465 kHz, 15-02, 0700 UTC**

197 775 775 30 30 = =  
 45654 67788 93572 57571 39009 75832 75790 73121 74588 47983  
 38589 75733 76789 88997 75379 99932 78645 79092 75385 75799  
 58893 09890 67542 87644 76863 43522 75835 38572 57571 75899  
 = = 775 775 30 30 000

**4490 kHz, 17-02, 2000 UTC. Different repeat in red**

197 263 263 30 30 = =  
 23845 28567 90871 63895 50238 80672 56723 13479 23145 67124  
 27396 17832 80765 80236 15807 70654 **70754** 89705 67823 89325 80975  
 78923 10390 56210 90853 10135 80651 68421 78902 92873 23845  
 = = 263 263 30 30 000

**4490 kHz, 19-02, 2000 UTC. Poor signal**

197 354 354 30 30 = =  
 46352 48756 09968 26354 102\_\_ 2\_\_ 6 66328 10276 19876 10098  
 \_\_1651 19377 2\_\_090 28376 22876 13990 7\_\_76 10008 18765 19898  
 80887 21211 34345 95647 29854 29298 18654 10288 32115 84654  
 = = 354 354 30 30 000

**5810 kHz, 21-02, 1500 UTC**

197 163 163 30 30 = =  
 37419 62739 15219 08623 98023 10976 57209 19283 54637 13579  
 12304 90234 87294 10194 49282 10467 68597 17426 68341 32105  
 27184 23406 76104 86210 42167 86923 86407 85879 15629 75804  
 = = 163 163 30 30 000

**5465 kHz, 22-02, 0700 UTC**

197 621 621 30 30 = =  
 81907 90824 71035 70394 10934 18021 35480 16926 90319 72034  
 71925 90167 78659 78054 51792 68104 61980 13682 13168 71942  
 21024 68924 70984 71853 62186 80806 27426 21369 91057 21459  
 = = 621 621 30 30 000

**5320 kHz, 24-02, 1800 UTC**

197 424 424 30 30 = =  
 40985 60978 28176 33651 60957 33647 50978 57644 25143 40980  
 39867 24312 38769 66098 55987 46121 50989 37656 39870 10098  
 46565 10900 27768 37461 30978 18749 10928 10937 20918 44980  
 = = 424 424 30 30 000

**5320 kHz, 26-02, 1800 UTC. Strong interference halfway the message. Wrong repeat in red**

197 532 532 30 30 = =  
 65451 66334 09001 98002 67890 09889 65743 65781 93752 43111  
 09908 23452 76673 43211 23322 43454 98239 77819 **7819** 76990 \_\_\_\_\_  
 75 \_\_\_\_\_ 7731 76666 93752 90034 87112 74534 75662 87110 83332  
 = = 532 532 30 30 000

**4490 kHz, 26-02, 2000 UTC**

197 904 904 30 30 = =  
 90888 09901 89982 65561 87781 89984 76451 43521 88931 75452  
 88541 78542 54344 12332 32122 54655 76788 90992 76533 86612  
 77895 23412 65564 98782 86552 23431 76542 98895 44255 67552  
 = = 904 904 30 30 000

**5810 kHz, 28-02, 1500 UTC**

197 882 882 30 30 = =  
 55876 10988 22543 58678 49800 13243 17658 22985 44098 59860  
 90988 35468 44562 35512 44890 55877 59587 10989 34335 48769  
 10922 31233 48769 23245 69806 48769 11423 47658 59098 58769  
 = = 882 882 30 30 000

**M12**

6982/7593/8187 kHz, 2200/2220/2240 UTC

**6982/7593/8187 kHz, 06-02/07-02, 2200/2220/2240 UTC**

951 951 951 1 2927 126 2927 126  
 54462 95993 55037 52908 54027 56681 35080 71705 47597 44756  
 00665 75159 49382 22889 44931 08471 19339 28759 89777 88882  
 92487 06506 83126 17682 35126 86132 28461 90975 62872 22732  
 55849 35806 63017 50014 22844 44742 83723 01129 81920 51489  
 02579 95213 68829 21340 12207 36267 26753 15891 64738 17924  
 94068 33289 09467 20567 41752 94348 44518 59509 21574 87891  
 86839 18898 90986 74942 84929 98459 57276 64197 93626 76189  
 96837 09378 30427 57491 87609 67037 11285 52681 84341 45701  
 41636 81813 10943 70520 73046 26859 54104 42320 22116 28562  
 33346 55065 41722 30801 63330 84234 06673 03788 54875 04460  
 02579 85855 94131 34455 34185 13844 85402 29531 39243 89545  
 34477 36713 57764 68305 37913 17156 29868 93223 43402 67405  
 89139 67490 94955 92653 87346 31508 000 000

**6982/7593/8187 kHz, 13-02/14-02/20-02/21-02/22-02, 2200/2220/2240 UTC**

951 951 951 1 4264 188 4264 188  
29670 76134 47615 47215 75325 79115 20145 37096 96149 66097  
25153 95769 26142 01798 05172 48265 97766 67546 34219 40668  
89406 03847 75817 86637 41554 88691 33612 59191 56362 29922  
20974 29625 67125 59772 11158 38577 36352 01595 89723 78661  
44873 77262 72996 14894 29483 47885 84858 27492 18380 65138  
50372 34922 40969 74313 02958 87606 90051 28591 39910 46996  
34236 06059 39752 56157 41226 59329 63127 66522 30469 28288  
32893 44684 60782 88128 25189 63051 91273 07838 46299 95530  
41461 09770 02337 38391 18529 89902 21753 37824 49400 56038  
41611 32042 28714 46604 01039 69263 44183 29579 28877 80506  
51203 84875 95110 13803 09458 89411 05775 68260 33902 96300  
72300 83481 39197 33544 38924 10482 51321 88828 85460 57861  
79633 58322 37912 14319 70278 83139 11605 00102 90122 43614  
16642 98320 92082 56793 80486 65110 85236 23016 20290 77208  
51574 45725 32776 41312 27868 72522 87888 84649 08488 53883  
01143 20008 96204 37521 85231 82633 51203 66720 29916 38245  
32414 69048 71061 15761 19663 47337 27054 32152 86288 77655  
31972 11136 23234 67798 57035 47592 15502 98682 86016 28310  
35034 99409 26638 12085 25777 66389 74539 92565 000 000

**6982/7593/8187 kHz, 27-02/28-02, 2200/2220/2240 UTC**

951 951 951 1 4411 62 4411 62  
63488 04782 95791 66143 40002 06411 50889 37785 22108 88269  
47101 83939 24080 95952 40599 38844 39421 31530 74219 15300  
84202 09966 40724 25336 66865 20129 67429 73772 80109 66010  
75135 38646 91860 58289 33720 53677 61424 26167 18473 31050  
25013 32148 80104 77321 47379 78556 32004 70216 02979 91142  
80810 45226 99269 83791 73513 73748 70494 39742 61630 70986  
09181 94132 000 000

|                                          |
|------------------------------------------|
| 11564/10487/9319 kHz, 1800/1820/1840 UTC |
|------------------------------------------|

**11564/10487/9319 kHz, 07-02, 1800/1820/1840 UTC**

258 258 258 1 2973 166 2973 166  
76675 65170 37997 77678 60346 23808 41751 76350 70670 47634  
33998 24585 01978 28938 01987 35810 51337 23483 14060 21159  
97294 09815 79299 52712 11448 10336 97401 24301 06379 94808  
16114 66757 78381 41168 78110 82808 90343 49122 47040 74303  
00928 72262 03369 79303 48119 27891 91747 90050 36782 84231  
28759 51794 57457 61395 35244 66859 85869 85283 66230 50009  
26405 17450 69970 75860 31519 67239 46203 60809 50827 19188  
45465 02214 76441 39755 20231 25031 06445 99994 04593 83556  
18587 07350 87517 22147 66049 64319 09300 16985 05924 11251  
96938 05060 82891 97029 47897 83476 02292 27508 47784 80879  
81686 30938 39223 17593 38765 26544 75351 17701 41164 10212  
60414 85873 80690 82672 31421 19054 29931 47823 09811 67199  
57939 29218 54884 39576 22248 40405 19321 79411 91856 36753  
22739 78936 52210 23713 01869 87648 68126 69923 83380 39504  
88966 91597 75819 95711 50835 11064 24368 00218 65607 28842  
53545 54467 17696 80584 22939 52468 76053 99646 95343 98359  
07222 95938 25843 04411 87471 81476 000 000

**11564/10487/9319 kHz, 14-02, 1800/1820/1840 UTC**

258 258 258 1 6959 155 6959 155  
86280 05702 38875 40910 34854 38833 20114 26264 23359 55013  
02562 17152 18256 98565 98111 90834 79232 24534 58293 82385  
11005 45002 18953 03986 12032 60055 51397 98800 69060 95809  
94300 05304 41952 17385 68844 19608 26017 00716 76132 01938  
39062 38374 24752 09116 54155 75242 17193 30103 09540 77723  
29740 74299 34058 61998 99826 41278 86748 34689 28878 74798  
87435 21313 57203 27549 60711 97256 75198 00870 29721 78503

64817 78515 48400 56354 43323 72630 20249 19836 49830 36789  
42861 19493 89259 91336 66068 20001 71245 79953 17558 27566  
32858 91326 71837 01334 14502 17748 81169 97201 48403 56897  
00043 16323 02182 31036 12905 51223 25898 77702 18675 27196  
21028 76911 84857 92087 31936 67941 32053 65865 61480 40710  
26010 95244 83311 02154 45644 73489 06670 47066 41852 25574  
91459 23046 61431 92932 36745 26538 17311 58222 78431 14844  
94101 93542 61277 90360 06538 55946 06468 79748 69396 46559  
85694 15304 35721 07693 30086 000 000

11564/10487/9319 kHz, 1900/1920/1940 UTC

**11564/10487/9319 kHz, 12-02, 1900/1920/1940 UTC**

258 258 258 1 6959 155 6959 155  
86280 05702 38675 40910 34854 38833 20114 26264 23359 55013  
02562 17152 18256 98565 98111 90834 79232 24534 58293 82385  
11005 45002 18953 03986 12032 60055 51397 98800 69060 95809  
94300 05304 41952 17385 68844 19608 26017 00716 76132 01938  
39062 38374 24752 09116 54155 75242 17193 31903 09540 77723  
29740 74299 34058 61998 99826 41278 86748 34689 28878 74798  
87435 21313 57203 27549 60711 97256 75198 00870 29721 78503  
64817 78515 48400 56354 43323 72630 20249 09836 49830 36789  
42861 19493 89259 91336 66068 20001 71245 79953 17558 27566  
32858 91326 71837 01334 14502 17748 81169 97201 48403 56897  
00043 16323 02182 31036 12905 51223 25898 77702 18675 27196  
21028 76911 84857 92087 31936 67941 32053 65865 61480 40710  
26010 95244 83311 02154 45644 73489 06678 47066 41852 25574  
91459 23046 61431 92932 36745 26538 17311 58222 78431 14844  
94101 93542 61277 90360 06538 55946 06469 79748 69396 46559  
85694 15304 35721 07693 30886 000 000

**11564/10487/9319 kHz, 19-02, 1900/1920/1940 UTC**

258 258 258 1 2750 159 2750 159  
16853 07567 55549 39166 58976 19615 67358 05882 17428 93598  
95480 53784 28747 04305 78530 81297 03369 59809 83312 97440  
69486 96296 71371 93615 90614 10334 53740 97733 06340 79668  
86484 30301 12735 22640 18428 78171 93383 91106 07980 34094  
66009 10418 78047 28905 12769 48164 52165 24969 25385 17349  
43243 77176 98906 59368 49665 20555 36194 61932 48550 48642  
65874 69623 99541 37768 07113 65179 41049 06107 85876 00359  
87912 12262 51828 49218 31430 59068 18249 42466 80845 42449  
58167 28771 72348 88990 36415 09308 31393 53365 72973 97871  
41976 31450 42555 59336 68219 96385 10876 40278 21792 47589  
07115 46058 39092 25025 29435 30980 25347 49688 27937 90596  
02306 93727 81086 06100 90474 37102 97273 10551 01353 97803  
33785 87682 33132 88003 58382 56462 69705 92490 80997 35044  
48191 77970 20673 33256 35334 12108 89677 47322 59554 05434  
83960 81704 25428 82376 95564 48248 50363 36454 68861 31116  
99110 00325 37925 23988 13803 19431 12925 51087 66642 000 000

**11564/10487/9319 kHz, 26-02/28-02, 1900/1920/1940 UTC**

258 258 258 1 951 35 951 35  
57527 71822 32048 60634 89373 51131 95348 10483 99584 37137  
48689 31946 13030 73366 78641 94020 45878 44574 68563 32951  
20232 72219 26644 20330 85945 24793 12217 71045 46040 47980  
17909 86709 04053 24656 90089 000 000

## M23

M23 was again very active on various frequencies. The non-stop transmissions were probably on the air for 24 hours a day. They faded in and out at times and were therefore not always audible.

### Hourly transmissions

|                                       |                                                    |
|---------------------------------------|----------------------------------------------------|
| 6961 kHz, 01-02, hourly 0000-2300 UTC | 0 (R10m 36s)                                       |
| 6961 kHz, 02-02, hourly 0000-2300 UTC | 0 (R10m 36s)                                       |
| 6961 kHz, 03-02, hourly 0000-2300 UTC | 0 (R10m 36s)                                       |
| 6961 kHz, 04-02, hourly 0000-2300 UTC | 0 (R10m 36s)                                       |
| 6961 kHz, 05-02, hourly 0000-0600 UTC | 0 (R10m 36s), not heard during the rest of the day |

### Non-stop transmissions

|                            |                                                                                           |
|----------------------------|-------------------------------------------------------------------------------------------|
| 18412 kHz, 03-02, 1000 UTC | 5 (22x) repeated. Inaudible after 1700z                                                   |
| 18412 kHz, 04-02, 0648 UTC | Non-stop digits 0,1,3,5 in various sequences and various speeds. Faded to nil after 1645z |
| 18412 kHz, 05-02, 0648 UTC | Non-stop digits 0,1,3,5 in various sequences and various speeds. Faded to nil after 1652z |
| 18412 kHz, 05-02, 1045 UTC | 5555555555 00000000 11111111 2                                                            |
| 5198 kHz, 05-02, 2214 UTC  | 5555555555 00000000 11111111 2                                                            |
| 5198 kHz, 06-02, 0600 UTC  | 5555555555 00000000 11111111 2 Faded to nil at 0937z                                      |
| 15850 kHz, 09-02, 1200 UTC | 5555555555 00000000 11111111 2 Faded to nil at 1715z                                      |
| 15850 kHz, 10-02, 0658 UTC | 5555555555 00000000 11111111 2 Faded in at 0658z, faded out at 1644z                      |
| 6198 kHz, 12-02, 1700 UTC  | 5555555555 00000000 11111111 2                                                            |
| 6198 kHz, 13-02, 0548 UTC  | 5555555555 00000000 11111111 2 . Buried under a radar for most of the day.                |
| 6198 kHz, 15-02, 2000 UTC  | i.p. non-stop 5555555555 00000000 11111111 2                                              |
| 6198 kHz, 15-02, 2000 UTC  | i.p. non-stop 5555555555 00000000 11111111 2                                              |
| 6198 kHz, 16-02, 0000 UTC  | Non-stop 5555555555 00000000 11111111 2                                                   |
| 6198 kHz, 16-02, 1533 UTC  | Non-stop 5555555555 00000000 11111111 2                                                   |
| 6198 kHz, 17-02, 0603 UTC  | i.p. non-stop 5555555555 00000000 11111111 2                                              |
| 6198 kHz, 18-02, 0000 UTC  | Non-stop 5555555555 00000000 11111111 2                                                   |
| 6198 kHz, 19-02, 0000 UTC  | Non-stop 5555555555 00000000 11111111 2 (off at 0005z on 20-02)                           |
| 6198 kHz, 20-02, 0000 UTC  | Non-stop 5555555555 00000000 11111111 2 (off at 0005z)                                    |

### 8030 kHz 18-02-2026 1520 UTC

KM DE VM K  
VM DE KM QSA 4 QRK 4 K  
DE VM QSA 5 QRK 5 QRU ? K  
OK OK (unreadable) PSE (unreadable) BON (rest unreadable)

## UM10

Thanks to JPL for finding February's UM10 schedules.

This month, they changed the calls/freqs/time on the 4th of February.

3718 kHz, 01-02 UTC, 7CJK (1240-1250)  
3718 kHz, 01-02 UTC, 7CJK (1310-1320)

3326/4112 kHz, 01-02 UTC, U34D (1250-1300)  
3326/4112 kHz, 01-02 UTC, U34D (1320-1330)  
3326/4112 kHz, 04-02 UTC, U34D (1720-1730)

3531/4310 kHz, 04-02 UTC, JZZN (1710 – 1720)  
3531/4310 kHz, 04-02 UTC, JZZN (1740 – 1750)  
3531/4310 kHz, 08-02 UTC, JZZN (1940 – 1950)  
3531/4310 kHz, 08-02 UTC, JZZN (1910 – 1920)  
3531/4310 kHz, 12-02 UTC, JZZN (1210 – 1220)  
3531/4310 kHz, 17-02 UTC, JZZN (1210 – 1220)  
3531/4310 kHz, 27-02 UTC, JZZN (1210 – 1220)  
3531/4310 kHz, 27-02 UTC, JZZN (1210 – 1220)  
3531/4310 kHz, 27-02 UTC, JZZN (1640 – 1640)

3250/3975 kHz, 04-02 UTC, VI4T (1805 – 1815)  
3250/3975 kHz, 08-02 UTC, VI4T (1935 – 1945)  
3250/3975 kHz, 13-02 UTC, VI4T (1735 – 1745)  
3250/3975 kHz, 17-02 UTC, VI4T (1705 – 1715)  
3250/3975 kHz, 27-02 UTC, VI4T (1205 – 1215)

## UM04 - PROMRCh

### 4735 kHz, 01-02, 0800 UTC

VVV VVV PROMRCh = 01 02 =

1000 0920 0970 1160 1680  
1200 1000 1050 1240 1790  
1400 0950 1000 1170 1660  
1600 0900 0950 1130 1630  
1800 0630 0660 0770 1080  
2000 0390 0410 0480 0690  
2200 0350 0360 0410 0560  
0000 0370 0380 0430 0580  
0200 0370 0380 0430 0580  
0400 0360 0380 0430 0590  
0600 0330 0340 0400 0560  
0800 0550 0590 0720 1060

= ABV

VVV VVV PROMRCh = 01 02 =

1000 0920 0970 1160 1680  
1200 1000 1050 1240 1790  
1400 0950 1000 1170 1660  
1600 0900 0950 1130 1630  
1800 0630 0660 0770 1080  
2000 0390 0410 0480 0690  
2200 0350 0360 0410 0560  
0000 0370 0380 0430 0580  
0200 0370 0380 0430 0580  
0400 0360 0380 0430 0590  
0600 0330 0340 0400 0560  
0800 0550 0590 0720 1060

= AR

### 4735 kHz, 02-02, 0800 UTC

Barely audible

### 4735 kHz, 03-02, 0800 UTC

VVV VVV PROMRCh = 03 02 =

1000 0940 1000 1180 1720  
1200 1030 1080 1270 1830  
1400 0970 1020 1180 1680  
1600 0920 0970 1140 1650  
1800 0650 0680 0790 1120  
2000 0410 0420 0500 0700  
2200 0360 0370 0420 0570  
0000 0370 0380 0430 0580  
0200 0370 0390 0440 0590  
0400 0370 0380 0440 0590  
0600 0330 0350 0410 0570  
0800 0560 0600 0730 1090

= ABV

VVV VVV PROMRCh = 03 02 =

1000 0940 1000 1180 1720  
1200 1030 1080 1270 1830  
1400 0970 1020 1180 1680  
1600 0920 0970 1140 1650  
1800 0650 0680 0790 1120  
2000 0410 0420 0500 0700  
2200 0360 0370 0420 0570  
0000 0370 0380 0430 0580  
0200 0370 0390 0440 0590  
0400 0370 0380 0440 0590  
0600 0330 0350 0410 0570  
0800 0560 0600 0730 1090

= AR

### 4735 kHz, 04-02, 0800 UTC

VVV VVV PROMRCh = 04 02 =

1000 0760 1010 1200 1740  
1200 1050 1100 1290 1840  
1400 0980 1030 1200 1690  
1600 0940 0990 1260 1670  
1800 0660 0700 0810 1140  
2000 0420 0440 0510 0720  
2200 0360 0380 0430 0580  
0000 0380 0390 0440 0590  
0200 0380 0390 0440 0600  
0400 0380 0390 0440 0600  
0600 0340 0360 0410 0580  
0800 0570 0620 0750 1100

= ABV

VVV VVV PROMRCh = 04 02 =

1000 0760 1010 1200 1740  
1200 1050 1100 1290 1840  
1400 0980 1030 1200 1690  
1600 0940 0990 1260 1670  
1800 0660 0700 0810 1140  
2000 0420 0440 0510 0720  
2200 0360 0380 0430 0580  
0000 0380 0390 0440 0590  
0200 0380 0390 0440 0600  
0400 0380 0390 0440 0600  
0600 0340 0360 0410 0580  
0800 0570 0620 0750 1100

= AR

### 4735 kHz, 06-02, 0805 UTC

VVV VVV PROMRCh = 06 02 =

1000 1000 1050 1240 1790  
1200 1090 1150 1340 1900  
1400 1010 1060 1230 1730  
1600 0970 1030 1200 14 EEEEE =  
1600 0970 1030 1200 1710  
1800 0710 0740 0860 1210  
2000 0440 0460 0540 0760  
2200 0380 0390 0450 0610  
0000 0390 0400 0450 0610  
0200 0390 0400 0450 0610  
0400 0390 0400 0460 0620  
0600 0350 0370 0430 0600  
0800 0600 0640 0780 1140

= ABV

VVV VVV PROMRCh = 06 02 =

1000 1000 1050 1240 1790  
1200 1090 1150 1340 1900  
1400 1010 1060 1230 1730  
1600 0970 1030 1200 1710  
1800 0710 0740 0860 1210  
2000 0440 0460 0540 0760  
2200 0380 0390 0450 0610  
0000 0390 0400 0450 0610  
0200 0390 0400 0450 0610  
0400 0390 0400 0460 0620  
0600 0350 0370 0430 0600  
0800 0600 0640 0780 1140

= AR

### 4735 kHz, 07-02, 0800 UTC

VVV VVV PROMRCh = 07 02 =

1000 1030 1080 1270 1820  
1200 1120 1180 1370 1940  
1400 1040 1080 1250 1750  
1600 1000 1050 1220 1740  
1800 0730 0760 0880 1240  
2000 0460 0480 0560 0780  
2200 0390 0400 0460 0620  
0000 0400 0410 0460 0620  
0200 0400 0410 0460 0620  
0400 0400 0410 0460 0630  
0600 0360 0380 0430 0600  
0800 0610 0650 0790 1160

= ABV

VVV VVV PROMRCh = 07 02 =

1000 1030 1080 1270 1820  
1200 1120 1180 1370 1940  
1400 1040 1080 1250 1750  
1600 1000 1050 1220 1740  
1800 0730 0760 0880 1240  
2000 0460 0480 0560 0780  
2200 0390 0400 0460 0620  
0000 0400 0410 0460 0620  
0200 0400 0410 0460 0620  
0400 0400 0410 0460 0630  
0600 0360 0380 0430 0600  
0800 0610 0650 0790 1160

= AR

### 4735 kHz, 08-02, 0800 UTC

VVV VVV PROMRCh = 08 02 =

1000 0990 1040 1230 1770  
1200 1090 1140 1330 1890  
1400 1010 1060 1220 1730  
1600 0980 1020 1200 1710  
1800 0720 0750 0870 1230  
2000 0450 0470 0550 0780  
2200 0390 0400 0450 0620  
0000 0400 0410 0460 0610  
0200 0390 0410 0460 0610  
0400 0390 0410 0460 0620  
0600 0360 0380 0480 0600  
0800 0610 0650 0780 1200

= ABV =

VVV VVV PROMRCh = 08 02 =

1000 0990 1040 1230 1770  
1200 1090 1140 1330 1890  
1400 1010 1060 1220 1730  
1600 0980 1020 1200 1710  
1800 0720 0750 0870 1230  
2000 0450 0470 0550 0780  
2200 0390 0400 0450 0620  
0000 0400 0410 0460 0610  
0200 0390 0410 0460 0610  
0400 0390 0410 0460 0620  
0600 0360 0380 0480 0600  
0800 0610 0650 0780 1200

= AR

### 4735 kHz, 09-02, 0800 UTC

Glitches in the signal

VVV VVV PROMRCh = 09-02 =

\_000 0990 1050 1230 1780  
\_\_00 1090 1140 0330 1890  
1400 \_\_20 1070 1230 1730  
1600 0980 1030 1210 1720  
1800 0730 0760 0880 1250  
2000 0460 0490 0560 0790  
2\_00 0400 0410 0460 0630  
0000 0400 0410 0460 0\_20  
020\_040\_0410 0460 0620  
0400 0400 0410 0460 0620  
0600 0380 0380 0440 0610  
0800 0620 0660 0?00 1170

= ABV

VVV VVV PROMRCh = 09-02 =

1000 0990 1050 1230 1780  
1200 1090 1140 0330 1890  
1400 1020 1070 1230 1730  
1600 0980 1030 1210 1720  
1800 0730 0760 0880 1250  
2000 0460 0490 0560 0790  
2200 0400 0410 0460 0630  
0000 0400 0410 0460 0X20  
020\_040\_0410 0460 0620  
0400 0400 0410 0460 0620  
0600 0380 0380 0440 0610  
0800 0620 0660 0?00 1170

= AR



**4735 kHz, 17-02, 0800 UTC**

VVV VVV PROMRCh = 17 02 =  
 1000 0980 1030 1220 1750  
 1200 1080 1130 1310 1860  
 1400 0990 1040 1200 1690  
 1600 0980 1030 1200 1700  
 1800 0740 0780 0910 1290  
 2000 0500 0530 0610 0860  
 2200 0420 0440 0500 0680  
 0000 0420 0440 0480 0640  
 0200 0420 0430 0480 0640  
 0400 0430 0440 0500 0660  
 0600 0390 0410 0470 0650  
 0800 0660 0710 0860 1260  
 = ABV  
 VVV VVV PROMRCh 17 02 =  
 1000 0980 1030 1220 1750  
 1200 1080 1130 1310 1860  
 1400 0990 1040 1200 1690  
 1600 0980 1030 1200 1700  
 1800 0740 0780 0910 1290  
 2000 0500 0530 0610 0860  
 2200 0420 0440 0500 0680  
 0000 0420 0440 0480 0640  
 0200 0420 0430 0480 0640  
 0400 0430 0440 0500 0660  
 0600 0390 0410 0470 0650  
 0800 0660 0710 0860 1260  
 = AR

**4735 kHz, 22-02, 0800 UTC**

VVV VVV PROMRCh = 22 02 =  
 1000 0940 0990 1170 1680  
 1200 1060 1110 1280 1820  
 1400 0990 1030 1190 1680  
 1600 0970 1010 1180 1680  
 1800 0760 0800 0930 1220  
 2000 0520 0550 0630 0880  
 2200 0430 0450 0500 0690  
 0000 0420 0430 0480 0650  
 0200 0420 0430 0480 0640  
 0400 0430 0440 0490 0660  
 0600 0390 0410 0470 0650  
 0800 0670 0720 0870 1280  
 = ABV  
 VVV VVV PROMRCh = 22 02 =  
 1000 0940 0990 1170 1680  
 1200 1060 1110 1280 1820  
 1400 0990 1030 1190 1680  
 1600 0970 1010 1180 1680  
 1800 0760 0800 0930 1220  
 2000 0520 0550 0630 0880  
 2200 0430 0450 0500 0690  
 0000 0420 0430 0480 0650  
 0200 0420 0430 0480 0640  
 0400 0430 0440 0490 0660  
 0600 0390 0410 0470 0650  
 0800 0670 0720 0870 1280  
 = AR

**4735 kHz, 18-02, 0802 UTC**

VVV VVV PROMRCh = 18 02 =  
 1000 0970 1030 1200 1730  
 1200 1070 1130 1300 1850  
 1400 0980 1020 1190 1670  
 1600 0970 1020 1190 1690  
 1800 0740 0780 0910 1280  
 2000 0500 0530 0610 0850  
 2200 0420 0440 0500 0680  
 0000 0420 0430 0480 0640  
 0200 0420 0430 0480 0640  
 0400 0430 0440 0490 0660  
 0600 0390 0410 0470 0650  
 0800 0660 0740 0860 1270  
 = ABV  
 VVV VVV PROMRCh = 18 02 =  
 1000 0970 1030 1200 1730  
 1200 1070 1130 1300 1850  
 1400 0980 1020 1190 1670  
 1600 0970 1020 1190 1690  
 1800 0740 0780 0910 1280  
 2000 0500 0530 0610 0850  
 2200 0420 0440 0500 0680  
 0000 0420 0430 0480 0640  
 0200 0420 0430 0480 0640  
 0400 0430 0440 0490 0660  
 0600 0390 0410 0470 0650  
 0800 0660 0740 0860 1270  
 = AR

**4735 kHz, 23-02, 0800 UTC**

VVV VVV PROMRCh = 23 02 =  
 1000 0940 0990 1160 1670  
 1200 1060 1100 1280 1810  
 1400 0980 1020 1180 1670  
 1600 0960 1010 1170 1670  
 1800 0760 0800 0930 1310  
 2200 0420 0550 0630 0880  
 0000 0430 0040 0500 0640  
 0000 0420 0430 0480 0640  
 0200 0420 0430 0480 0640  
 0400 0430 0440 0490 0660  
 0600 0390 0410 0460 0650  
 0800 0670 0720 0870 1290  
 = ABV  
 VVV VVV PROMRCh = 23 02 =  
 1000 0940 0990 1160 1670  
 1200 1060 1100 1280 1810  
 1400 0980 1020 1180 1670  
 1600 0960 1010 1170 1670  
 1800 0760 0800 0930 1310  
 2200 0420 0550 0630 0880  
 0000 0430 0040 0500 0640  
 0000 0420 0430 0480 0640  
 0200 0420 0430 0480 0640  
 0400 0430 0440 0490 0660  
 0600 0390 0410 0460 0650  
 0800 0670 0720 0870 1290  
 = AR

**4735 kHz, 19-02, 0800 UTC**

Not monitored

**4735 kHz, 20-02, 0800 UTC**

Not monitored

**4735 kHz, 24-02, 0800 UTC**

VVV VVV PROMRCh = 24 02 =  
 1000 0940 0990 1160 1670  
 1200 1060 1110 1280 1810  
 1400 0990 1030 1190 1670  
 1600 0960 1010 1170 1680  
 1800 0770 0810 0940 1340  
 2000 0530 0560 0640 0900  
 2200 0430 0450 0510 0690  
 0000 0420 0430 0490 0650  
 0200 0420 0430 0480 0640  
 0400 0420 0440 0490 0660  
 0600 0390 0400 0460 0640  
 0800 0670 0720 0870 1290  
 = ABV  
 VVV VVV PROMRCh = 24 02 =  
 1000 0940 0990 1160 1670  
 1200 1060 1110 1280 1810  
 1400 0990 1030 1190 1670  
 1600 0960 1010 1170 1680  
 1800 0770 0810 0940 1340  
 2000 0530 0560 0640 0900  
 2200 0430 0450 0510 0690  
 0000 0420 0430 0490 0650  
 0200 0420 0430 0480 0640  
 0400 0420 0440 0490 0660  
 0600 0390 0400 0460 0640  
 0800 0670 0720 0870 1290  
 = AR

**4735 kHz, 21-02, 0800 UTC**

VVV VVV PROMRCh = 21 02 =  
 1000 0950 1000 1170 1680  
 1200 1060 1110 1290 1820  
 1400 0980 1030 1190 1670  
 1600 0960 1010 1170 1670  
 1800 0760 0790 0920 1310  
 2000 0520 0540 0630 0880  
 2200 0430 0440 0500 0690  
 0000 0420 0430 0480 0640  
 0200 0420 0430 0480 0640  
 0400 0430 0440 0490 0660  
 0600 0390 0410 0470 0650  
 0800 0670 0720 0870 1290  
 = ABV =  
 VVV VVV PROMRCh = 21 02 =  
 1000 0950 1000 1170 1680  
 1200 1060 1110 1290 1820  
 1400 0980 1030 1190 1670  
 1600 0960 1010 1170 1670  
 1800 0760 0790 0920 1310  
 2000 0520 0540 0630 0880  
 2200 0430 0440 0500 0690  
 0000 0420 0430 0480 0640  
 0200 0420 0430 0480 0640  
 0400 0430 0440 0490 0660  
 0600 0390 0410 0470 0650  
 0800 0670 0720 0870 1290  
 = AR

**4735 kHz, 25-02, 0800 UTC**

VVV VVV PROMRCh = 25 02 =  
 1000 0930 0980 1160 1670  
 1200 1050 1100 1270 1810  
 1400 0990 1030 1190 1680  
 1600 0960 1010 1180 1670  
 1800 0780 0810 0950 1340  
 2000 0530 0550 0640 0890  
 2200 0430 0440 0500 0690  
 0000 0420 0430 0480 0640  
 0200 0420 0430 0480 0640  
 0400 0420 0440 0490 0660  
 0600 0380 0400 0460 0640  
 0800 0670 0720 0870 1290  
 = ABV  
 VVV VVV PROMRCh = 25 02 =  
 1000 0930 0980 1160 1670  
 1200 1050 1100 1270 1810  
 1400 0990 1030 1190 1680  
 1600 0960 1010 1180 1670  
 1800 0780 0810 0950 1340  
 2000 0530 0550 0640 0890  
 2200 0430 0440 0500 0690  
 0000 0420 0430 0480 0640  
 0200 0420 0430 0480 0640  
 0400 0420 0440 0490 0660  
 0600 0380 0400 0460 0640  
 0800 0670 0720 0870 1290  
 = AR



**4735 kHz, 26-02, 0800 UTC**

Not monitored

**4735 kHz, 27-02, 0801 UTC**

VVV VVV PROMRCh = 27 02 =

1000 0930 0980 1150 1660  
 1200 1040 1090 1260 1790  
 1400 0980 1030 1190 1670  
 1600 0960 1010 1170 1670  
 1800 0770 0880 0940 1340  
 2000 0530 0560 0640 0900  
 2200 0440 0440 0500 0690  
 0000 0420 0430 0480 0640  
 0200 0410 0420 0470 0640  
 0400 0420 0430 0480 0650  
 0600 0380 0390 0450 0630  
 0800 0670 0720 0870 1290

= ABV

VVV VVV PROMRCh = 27 02 =

1000 0930 0980 1150 1660  
 1200 1040 1090 1260 1790  
 1400 0980 1030 1190 1670  
 1600 0960 1010 1170 1670  
 1800 0770 0880 0940 1340  
 2000 0530 0560 0640 0900  
 2200 0440 0440 0500 0690  
 0000 0420 0430 0480 0640  
 0200 0410 0420 0470 0640  
 0400 0420 0430 0480 0650  
 0600 0380 0390 0450 0630  
 0800 0670 0720 0870 1290

= AR

**4735 kHz, 28-02, 0800 UTC**

VVV VVV PROMRCh = 28 02 =

1000 0930 0980 1150 1660  
 1200 1040 1090 1270 1800  
 1400 0990 1030 1190 1680  
 1600 0960 1010 1180 1670  
 1800 0780 0820 0950 1350  
 2000 0530 0560 0640 0900  
 2200 0420 0440 0500 0690  
 0000 0420 0430 0480 0640  
 0200 0410 0420 0470 0630  
 0400 0420 0430 0480 0650  
 0600 0370 0390 0450 0630  
 0800 0680 0720 0880 1300

= ABV

VVV VVV PROMRCh = 28 02 =

1000 0930 0980 1150 1660  
 1200 1040 1090 1270 1800  
 1400 0990 1030 1190 1680  
 1600 0960 1010 1180 1670  
 1800 0780 0820 0950 1350  
 2000 0530 0560 0640 0900  
 2200 0420 0440 0500 0690  
 0000 0420 0430 0480 0640  
 0200 0410 0420 0470 0630  
 0400 0420 0430 0480 0650  
 0600 0370 0390 0450 0630  
 0800 0680 0720 0880 1300

= AR

**Russian Operator 6 test transmissions**

All logged by PY. Thanks for that!

**M14, 9463 kHz, 13-01, 0840 UTC. Two series of fast beeps****M14, 9463 kHz, 13-02, 0900 UTC**

801 647 647 52 52 = =  
 61609 03404 19283 49131 55364 20034 78716 12770 31200 13909  
 53889 79259 24877 28944 64945 27121 93023 43467 54575 99076  
 73063 38622 73283 49610 14731 24676 55696 40270 50353 61183  
 64112 81166 96085 31932 07477 42102 01300 60605 63371 81758  
 88296 78117 58403 68400 49540 77531 86580 90509 94604 17526  
 70371 80804  
 = = 647 647 52 52 00000

**M14, 10755 kHz, 16-01, 1240 UTC. Two series of fast beeps****M14, 10755 kHz, 16-01, 1300 UTC**

975 126 126 53 53 = =  
 65159 91453 73986 84752 68065 52007 33346 96821 66400 41723  
 12656 49660 25230 74967 03941 79343 79686 76201 48522 62576  
 38769 92742 69586 23261 36901 46297 98585 08294 31681 15447  
 56440 37288 71252 66287 75453 55916 79754 73390 72891 47549  
 34264 98287 12154 82878 31686 17666 12491 12230 69019 18454  
 93181 30220 85443  
 = = 126 126 53 53 00000

**S06, 9300 kHz, 26-01, 1300 UTC**

352 [5s silence] 352 (R4m10s) 796 41  
 62555 44337 45434 39706 19295 04781 26978 22089 94663 49587  
 44245 41681 94337 33772 80484 30610 33423 80209 61768 52718  
 47256 06864 17350 16499 93323 45280 81364 53957 56123 79694  
 69868 50406 66907 70738 82862 65102 93221 87460 97213 15464

76740  
796 41 [16s silence] 00000

**M14, 11073 kHz, 29-01, 0838 UTC. Two series of fast beeps**

**M14, 11073 kHz, 29-01, 0850 UTC. Several breaks and restarts**

352 479 479 60 60 = =  
77607 99204 63589 53440 97172 87253 15004 66672 45580 47860  
47502 59601 77945 25916 07101 45100 47567 07612 98259 88028  
66514 67134 36126 60184 49125 27914 71524 59025 74358 18115  
87142 82341 27922 25046 88345 76080 10132 78186 37059 97497  
20424 15514 02151 60828 54469 12820 24758 57672 74821 80698  
21991 69261 41038 58904 77455 12819 10209 62752 92028 89186  
= = 479 479 60 60 00000

**M14, 9463 kHz, 29-01, 1152 UTC. Two series of fast beeps**

**M14, 9463 kHz, 29-01, 1210 UTC. Several breaks and restarts**

801 362 362 54 54 = =  
30168 66306 14962 11553 53586 46688 89469 27874 57908 00913  
18887 42497 49082 48932 29019 89697 99734 35106 22782 64704  
64203 97111 93531 34065 49136 12698 27541 91823 13095 91447  
31587 41170 93601 03753 46565 06285 85057 64178 33078 04020  
15988 11419 39938 30198 99032 52012 91514 40005 52137 60020  
54863 27498 14353 49845  
= = 362 362 54 54 00000

**M14, 10755 kHz, 29-01, 1356 UTC. Two series of fast beeps**

**M14, 10755 kHz, 29-01, 1400 UTC. Restart**

975 823 823 60 60 = =  
37593 00278 40103 18916 74804 05396 49170 22555 89132 80643  
58185 05254 59370 58825 00388 54263 02127 99725 33363 25854  
15427 51846 66484 76240 02095 13065 82974 65650 58855 19918  
05036 77733 42104 20173 75487 21475 46266 08395 54337 07833  
55697 29188 53740 18262 56053 77799 59768 07313 16071 52772  
14436 06516 75697 40343 56415 21710 01504 35257 43882 41020  
= = 823 823 60 60 00000

**S06, 9463 kHz, 05-02, 1200 UTC**

801 (R4m) 967 52  
29514 71178 35216 68185 92947 21442 37844 67090 62295 72283  
62477 91893 42053 87569 10354 33326-  
[27s silence] 801 (R1m15s)  
91893 42053 87569 10354 33326 83602 87853 77478-  
[30s silence] 801 801 (R1m)  
10354 33326 83602 87853 77478 12608  
73973 87945 11215 08125 87984 51371 51337 04473 52205 03918  
66504 18550 94165 73446 22073 82385 75261 48164 40197 87400  
30787 70534 38158 19772 65535 09028 55843 41608 78401 7488-  
[4s silence] 801 (R1m10s) [10s silence] 801 (R1m05s)  
65535 09028 55843 41608 78401 11111 (group modified)  
08329 97605  
967 52 00000

**Full recomposed message:**

801 967 52  
29514 71178 35216 68185 92947 21442 37844 67090 62295 72283  
62477 91893 42053 87569 10354 33326 83602 87853 77478 12608  
73973 87945 11215 08125 87984 51371 51337 04473 52205 03918  
66504 18550 94165 73446 22073 82385 75261 48164 40197 87400  
30787 70534 38158 19772 65535 09028 55843 41608 78401 11111  
08329 97605  
967 52 00000

**S06, 10755 kHz, 05-02, 1320 UTC**

975 (R4m) 138 60  
97613 74199 86455 22731 45801 28245 94011 06041 84433 03988  
46478 41321 46575 48365 61613 07772 55246 86611 91259 67893  
14435 71062 34078 74930 65046 54656 71822 97987 29232 06333  
15090 94504 91538 10516 69468 84791 90305 17864 58049 08295  
17758 39475 61208 66290 52225 01746 59623 80692 70932 04048  
91441 23662 16784 46435 59552 97701 17603 19558 49887 70928  
138 60 000  
[34s silence] 975 (R1m25s)  
01746 59623 80692 70932 04048  
91441 23662 16784 46435 59552 97701 17603 19558 49887 70928  
138 60 00000

**Full recomposed message:**

975 138 60  
97613 74199 86455 22731 45801 28245 94011 06041 84433 03988  
46478 41321 46575 48365 61613 07772 55246 86611 91259 67893  
14435 71062 34078 74930 65046 54656 71822 97987 29232 06333  
15090 94504 91538 10516 69468 84791 90305 17864 58049 08295  
17758 39475 61208 66290 52225 01746 59623 80692 70932 04048  
91441 23662 16784 46435 59552 97701 17603 19558 49887 70928  
138 60 00000

**S06, 11073 kHz, 08-02, 0830 UTC**

352 (R4m) 817 60  
43725 26921 03714 41380 71412 20893 44136 60657 75388 87621  
56453 37784 49565 55430 51109 44097 21212 88565 63856 05994  
35467 53519 06141 50601 52454 48348 30427 26158 17931 99663  
33 [30s silence]  
352 (R1m)  
30427 26158 17931 99663  
33906 14286 93407 56984 49009 76350 56678 39143 94192 01084  
08 [21s silence]  
352 (R1m)  
76350 56678 39143 94192 01084  
08702 12428 83397 45667 47762 05155 17646 87458 96859 88347  
07207 [1m23s silence]  
352 (R2m)  
17646 87458 96859 88347  
07207 28554 95250 77219 97757 20362 90100 33148 98991 00395  
817 60 00000

**Full recomposed message:**

352 817 60  
43725 26921 03714 41380 71412 20893 44136 60657 75388 87621  
56453 37784 49565 55430 51109 44097 21212 88565 63856 05994  
35467 53519 06141 50601 52454 48348 30427 26158 17931 99663  
33906 14286 93407 56984 49009 76350 56678 39143 94192 01084  
08702 12428 83397 45667 47762 05155 17646 87458 96859 88347  
07207 28554 95250 77219 97757 20362 90100 33148 98991 00395  
817 60 00000

**S06g, 9463 kHz, 08-02, 1245 UTC**

801 29481 (R1m45s)  
801 801 801 294 [32s silence]  
801 29481 (R2m) 256 34  
61941 27167 92330 79164 72646 32719 02001 45947 43141 90284  
26127 02272 74226 47983 00889 81941 74432 21102 40884 23739  
41656 94019 17490 06995 59735 96835 10767 54827 33401 73891  
20823 34751 10055 86381 [39s silence]  
01 801 (R50s)  
54827 33401 73891  
20823 34751 10055 86381 [28s silence]

801 (R1m05s)  
20823 34751 10055 86381  
256 34 00000

**Full recomposed message:**

801 29481 256 34  
61941 27167 92330 79164 72646 32719 02001 45947 43141 90284  
26127 02272 74226 47983 00889 81941 74432 21102 40884 23739  
41656 94019 17490 06995 59735 96835 10767 54827 33401 73891  
20823 34751 10055 86381  
256 34 00000

**S06g, 10755 kHz, 08-02, 1340 UTC**

975 19283 (R4m) 642 31  
86825 22840 50365 59760 63061 73622 83831 82566 43033 46042  
23102 36560 60090 61226 206 [30s silence]  
975 (R1m)  
23102 36560 60090 61226 20667 93446 94035 99504 59790 52627  
32271 24913 70786 91331 64251 76205 79817 77364 88923 22802  
82400  
642 3 [25s silence]  
975 (R1m05s)  
77364 88923 22802  
82400  
642 31 00000

**Full recomposed message:**

975 19283 642 31  
86825 22840 50365 59760 63061 73622 83831 82566 43033 46042  
23102 36560 60090 61226 20667 93446 94035 99504 59790 52627  
32271 24913 70786 91331 64251 76205 79817 77364 88923 22802  
82400  
642 31 00000

**S06g, 11073 kHz, 09-02, 0750 UTC**

352 [1m10s silence] 52 352 28417  
352 28417 (R4m) 789 [23s silence]  
352 (R1m05s) 789 40  
84207 07184 23440 27841 71601 55078 00250 12129 62115 92364  
07042 31779 08255 59673 12478 [2s silence]  
352 (R2m50s) 352 28417 (R1m30s)  
07042 31779 08255 59673 12478 [3s silence]  
352 (R2m) 352 28417 (R40s)  
07042 31779 08255 59673 12488 (group corrected) 32614 26709 53312 (unpaired) 5352  
[1s silence]  
352 (R2m10s) 35 [1s silence]  
352 28417 352 28417 (R30s)  
59673 12488 32614 26709 52312 (group corrected) 37422 90616  
30665 80602 00399 82942 03633 22744 00636 46924 13209 97376  
99655 31750 88215 38047 87331 72502 07665 32750 43356 41257  
789 40  
352 (R1m) 478 60  
84763 43477 26766 25252 19983 90734 82819 24148 06739 81474  
99363 11244 [7s silence]  
352 (R1m30s) 7 352 28417 (R45s)  
24148 06739 81474  
99363 11244 14767 37798 28979 34766 86850 56794 48008 05894  
01212 16273 53959 29530 44165 31758 19263 16824 91454 56952  
62309 84117 21729 44838 21710 67997 10575 11608 44718 11155  
78561 70623 25752 98736 91716 28573 55943 49859 37896 61029  
69670 94001 27454 09583 98990 86937 91675 67754 71928 45912  
478 60 00000

**Full recomposed messages:**

352 28417 789 40  
84207 07184 23440 27841 71601 55078 00250 12129 62115 92364  
07042 31779 08255 59673 12488 32614 26709 52312 37422 90616  
30665 80602 00399 82942 03633 22744 00636 46924 13209 97376  
99655 31750 88215 38047 87331 72502 07665 32750 43356 41257  
789 40  
352 478 60  
84763 43477 26766 25252 19983 90734 82819 24148 06739 81474  
99363 11244 14767 37798 28979 34766 86850 56794 48008 05894  
01212 16273 53959 29530 44165 31758 19263 16824 91454 56952  
62309 84117 21729 44838 21710 67997 10575 11608 44718 11155  
78561 70623 25752 98736 91716 28573 55943 49859 37896 61029  
69670 94001 27454 09583 98990 86937 91675 67754 71928 45912  
478 60 00000

**M14, 11073 kHz, 10-02, 0835 UTC. Slow beeps**

**M14, 11073 kHz, 10-02, 0842 UTC. Two series of fast beeps**

**M14, 11073 kHz, 10-02, 0900 UTC**

352 194 194 60 60 = =  
01484 18392 12594 84095 29911 54855 55519 46574 05694 71323  
28660 81420 01335 34972 66218 26228 12674 39432 83483 68153  
04098 24576 44549 26268 39000 22588 61375 90634 93938 22478  
85147 22814 79915 70250 75845 47485 19230 46901 60979 89866  
51325 91432 19419 38624 66092 61075 51264 28957 88035 45910  
19683 45545 59766 80063 75659 90046 98247 16681 01594 42838  
= = 194 194 60 60 00000

**S06g, 9463 kHz, 11-02. 1020 UTC**

801 57913 (R3m30s)  
80- [9s silence] 57913 801 57913 (R1m) 526 34  
96977 96078 76386 01171 62543 87733 85734 62949 44979 59322  
99228 00651 47038 49392 08503 41950 29629 50153 87964 00653  
45645 20388 78087 86920 59835 28539 19589 71888 40640 55652  
86915 48863 34942 12879  
526 [1m10s silence]  
801 (R2m10s)  
71888 40640 55652  
86915 48863 34942 12879  
526 34 00000

**Full recomposed message:**

801 57913 526 34  
96977 96078 76386 01171 62543 87733 85734 62949 44979 59322  
99228 00651 47038 49392 08503 41950 29629 50153 87964 00653  
45645 20388 78087 86920 59835 28539 19589 71888 40640 55652  
86915 48863 34942 12879  
526 34 00000

ID 910 is an old test ID that hadn't been heard in a very long time:

**E06, 9356 kHz, 20-02, 0740 UTC**

910 (R1m) [no further activity]



## DIGITAL MODES

### F01

F01 – FSK 200/500 Mon-Fri schedule

#### 12184/10169/8079 kHz, 02-02, 1015/1025/1035 UTC

19124 92691 67321 37549 14616 57354 21878 42616 81738 03772  
17258 82367 26688 19148 45613 73199 84638 20338 71169 11030  
84086 69342 76467 46225 40212 33825 33688 84002 75666 84835  
62022 15022 92250 48929 57010 05827 41901 56864 02792 03848  
70439 56072 03203 36638 32501 79086 92658 10038 01102 85110  
12757 34945 20274 16921 65547 37401 74190 40294 79391 31648  
71249 58131 48360 60874 66526 16483 31109 35316 71044 44660  
20153 22414 21298 96602 17500 68707 07476 85718 77564 58149  
83797 30357 03300 36545 09434 52120 06499 56779 93415 94190  
68187 24541 41995 51868 60053 49219 31882 32498 12848 29666  
57792 86988 42698 29503 27760 80085 71270 21676 04629 91618  
00709 06928 17186 65880 29308 35886 89348 51343 18839 89454  
60864 97894 49477 97189 97950 03779 23260 98356 17308 29434  
02019 75339 71958 20410 90729 14116 72330 06559 02197 71461  
41038 69676 64032 53576 24789 96795 53856 35836 11860 61306  
73651 78334 28575 99098 99226 16918 13223 71907 65702 34395  
90858 35060 74978 41611 97416 51797 36109 23068 26581 21370  
74525 26790 97841 13091 71039 03112 69192 23529 16580 22076  
42874 99039 93579 24139 37648 90808 19961 83858 25985 34612  
16665 91259 59651 72461 84642 80568 32105 58335 02262 60983  
51143 15183 79063 29203 20245 35377 26795 68364 52043 41822  
33679 63100 62360 51882 52829 85401 18248 11342 40770 30958  
38470 90561 06996 10687 69865 60033 60491 27111 88021 87521  
64175 90303 95711 23970 33181 53054 17512 70359 37928 69976  
14054 42725 97914 10215 64348 77490 77169 78466 89600 44329  
17306 23977 16975 58736 69103 42222 06741 11484 08569 98952  
91229 57167 48401 31278 99044 29018 80813 05509 62969 72176  
12630 36402 34997 12604 78609 97538 56932 03828 43933 77492  
59993 18714 31783 61485 91857 78433 36961 43229 94583 35835  
11478 96616 81852 55393 33051 61972 88961 56927 92454 26544  
94007 15280 60652 03908 33706 33135 21650 42002 62266 29175  
82012 14449 26779 08750 92978 74869 57540 09258 46103 78880  
96759 37419 28387 03441 14078 40635 47800 18262 82344 79607  
65163 88950 12081 94430 93312 16575 68081 81309 49485 43350  
16571 22124 71866 79118 76370 34007 36230 28325 72507 31130  
33627 22161 15699 15884 95026 85574 56155 41640 73886 93836  
85137 14285 22560 98331 82702 24706 23489 26294 35082 29428  
61127 84136 70124 21576 45511 19097 84243 59363 23442 18862  
59304 44281 38192 53870 92891 66185 23689 91982 90396 57469  
44111 40196 92349 23495 14828 93103 35451 41494 65622 92770  
70731 45106 32148 29733 87271 36750 86530 39792 14937 95013  
43077 76300 04540 69256 62617 48415 00000 +++++ +++++ +++++

#### 12184/10169/8079 kHz, 03-02, 1015/1025/1035 UTC

75003 58538 26371 69650 98374 87239 00854 55860 92815 48564  
13945 57836 06304 39035 06326 44401 84983 74487 57842 93071  
82912 32623 68985 41248 36774 20262 65920 55078 28950 82491  
14979 45691 87417 95897 57567 87472 95903 13069 01418 18087

12720 50548 29129 24919 21741 37440 09929 47631 63934 66843  
25592 51525 22904 17303 46464 51383 62875 36475 18511 90494  
42549 04180 47351 04537 53288 17039 90188 25018 55040 61881  
91599 01946 08466 70112 24105 50430 26688 49077 00000

10414 31437 39202 96088 19859 05653 45539 05528 63161 39330  
82839 52132 74326 74042 91759 78116 34123 37151 01661 68058  
29287 56546 98061 54901 26267 48140 53858 44801 39213 74552  
16502 21756 96888 98425 68314 17967 38197 78801 02147 60848  
91009 84013 79551 32643 13978 19503 63659 03572 06027 94031  
43954 24450 13209 72699 95130 89723 87608 90221 37219 06845  
77985 22891 89169 32937 56844 42680 33076 64679 13616 01897  
31239 92356 68642 21854 63242 54000 87647 83973 75239 50572  
01382 46776 58634 50083 00000 +++++ +++++ +++++

**12184/10169/8079 kHz, 04-02, 1015/1025/1035 UTC**

26218 24307 06856 96165 30731 94655 49765 27759 80103 29294  
15639 89599 96862 76966 03750 30750 64883 24794 63444 41675  
30113 45653 49805 26278 29520 86672 84873 01771 59206 53526  
97877 93570 17611 70221 42904 17391 84751 19052 17444 65743  
23442 90428 30257 41002 13415 97247 91995 02260 54294 33506  
27011 18119 98355 81836 29791 42644 99000 99660 14471 56638  
85902 38640 30840 41441 02743 77117 45289 77430 68483 70230  
10149 84426 48113 47393 69826 46169 43806 11827 77213 86070  
42420 21823 18773 86421 80288 58444 71760 68244 11234 09328  
42013 73979 88736 23294 55738 20186 98202 15443 03746 12453  
00275 27427 61560 39707 71099 72588 33848 90098 50525 20641  
96598 55657 34129 01597 35497 17909 70040 33618 03925 31632  
46483 04479 49030 48948 80977 61331 79299 50935 47144 88455  
72068 78940 00034 77691 44419 82792 85941 21227 35883 28099  
47622 81442 76408 29806 60855 17493 38009 04219 63301 73312  
93554 56670 61570 56734 31114 47011 27458 64412 97311 00133  
19281 32230 68118 53686 89235 15883 70530 60203 62746 31332  
03557 85793 00710 09795 31961 72615 80595 46990 51200 57303  
57326 51294 46988 62537 89882 20524 97922 03947 44572 02006  
94625 79533 10889 15648 73814 33799 90911 44676 90760 13774  
48179 23742 78554 59117 26963 79075 67640 93498 77906 00378  
64023 09425 50929 49144 09622 63722 41368 33092 73173 25846  
00275 01395 45156 46204 44808 40407 35143 36698 29661 74555  
95037 80649 65470 02107 16628 14319 95120 20472 76890 47178  
63909 20760 29493 13158 44490 56253 65915 70028 02539 14494  
94646 89113 14087 47675 11879 02527 70440 41016 62149 00114  
31643 23821 12355 93289 14414 52888 87586 87956 25482 22987  
42220 33691 76287 84052 64687 41392 39949 69827 39394 86569  
36468 67599 14186 40465 57089 83753 46831 96192 63749 84797  
28941 82091 24580 18582 10765 79464 71363 45363 75307 86903  
89910 33433 35197 98386 79285 98981 50746 87328 40809 94881  
92641 13774 82792 78089 97696 96929 51925 10350 91115 20209  
27264 71885 73691 60988 37756 92761 97385 62257 89236 31616  
77726 88345 11832 56438 16455 31927 63712 07090 32872 64478  
52138 44247 27306 47380 57710 14457 25148 45848 72802 85998  
74895 12892 90071 35227 98634 35474 02019 88097 18397 60064  
97513 46549 06843 39779 66231 54441 35688 70285 46939 82729  
20330 06670 80562 38565 84097 78440 53983 28008 90569 44874  
45488 27043 17397 57872 07825 40581 70065 24530 49777 54137  
59038 86594 02238 07874 88718 59015 79662 47693 31654 94749  
72897 33066 86448 68038 34273 06291 42790 93320 40934 51409  
00000 +++++ +++++ +++++

**12184/10169/8079 kHz, 05-02, 1015/1025/1035 UTC**

63773 63024 61528 31807 29637 64190 54996 79445 79776 26851  
89353 62653 83686 39574 87884 75074 70704 29587 64424 49437  
97212 17550 91004 64524 25273 29467 51143 80377 42370 14162

20963 12654 76957 39756 45337 82080 89489 67585 01239 99952  
43635 27001 65475 75590 87348 39484 29025 56721 98490 65514  
25123 38696 74697 72632 63314 03502 72160 48125 86653 74486  
23032 04784 94229 97754 86128 53163 96214 86152 10617 38782  
93617 86791 17383 67705 99934 58045 27758 68935 46879 66953  
94305 52081 00000

63482 12091 44339 82701 40505 86463 60838 80074 60261 42190  
86620 56730 42313 46596 80837 96091 17123 93759 97750 63778  
59345 64740 56599 00692 72000 42197 83442 75963 69965 21585  
35904 54457 36219 86127 46777 58501 49273 37742 47399 28553  
05243 01111 56762 12477 82969 43084 47275 38118 25663 74601  
23131 48870 37474 27325 72200 06915 18446 22160 77403 93826  
86291 71863 98493 63229 58417 84917 60185 25185 92633 62863  
07563 67017 10010 08280 14725 40244 48279 85590 57576 68307  
19256 01894 86721 54795 68694 00001 61396 96842 62025 80859  
30372 53091 00000 +++++ +++++ +++++

**12184/10169/8079 kHz, 06-02, 1015/1025/1035 UTC**

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**12184/10169/8079 kHz, 09-02, 1015/1025/1035 UTC**

70575 46383 93741 38371 56858 31885 74407 21038 34770 83704  
41557 80957 74641 81582 09412 41737 32074 66407 71735 93860  
42768 08051 09796 78204 58835 80727 37908 57541 25070 38067  
47528 80716 18585 05068 35802 69192 00277 29150 29545 80635  
51532 57461 40546 29257 94636 32651 13180 67557 20304 24282  
50222 59206 70777 38083 27842 97708 51935 70207 35675 50563  
72830 98712 02948 33599 36117 29427 96562 45171 27791 38394  
02099 14914 79683 78102 23661 46723 03143 39652 63511 60669  
17355 88083 67422 63529 20718 13023 46697 02606 78732 61863  
12778 82546 26820 47636 85394 49836 11537 48792 60189 74647  
18588 43053 46744 84749 61104 42539 12961 31147 26613 22351  
96722 90152 06126 59800 70784 31571 53808 26462 71818 07676  
50639 00262 29555 42687 70523 89754 56965 27414 72274 87810  
87414 48769 65915 96873 69720 08830 26742 92995 57065 13131  
55561 20823 50692 32900 08577 36735 84319 70889 45327 42304  
60223 85516 68133 75284 72907 52994 51487 50301 81318 72131  
84820 66441 15529 41500 77087 23916 28825 63656 96601 17008  
31158 56091 44566 95455 64860 73614 85731 11503 08602 71851  
84619 94765 20495 66534 20752 22124 56301 68289 81318 74820  
23678 97597 54730 99953 58387 09615 73477 18554 33423 83544  
79754 47425 36984 56256 12268 26950 80231 04815 37675 72031  
20767 07639 75091 88375 12776 38949 87096 21286 19763 76208  
35691 29168 50827 25238 26619 98932 06408 92699 90522 45471  
44439 60620 74332 62410 02853 42665 41369 16319 39371 26830  
03556 01560 74513 34246 34210 97974 48773 48795 34831 98586  
29881 97196 54336 99514 31114 84287 84167 69273 26571 13156  
77721 39665 74360 44822 67530 85435 83633 77172 78633 84888  
86407 47801 61582 78640 00104 90478 93505 68716 91756 99915  
20682 25159 79807 84513 41053 92341 34448 11795 50117 12185  
62419 76194 98637 06447 87238 43902 35605 85289 60760 54442  
34891 74296 67031 83683 29030 77137 04361 97955 98573 16068  
56556 53970 90436 17444 89257 24231 63698 34443 32300 52620  
86271 24187 34056 69841 30895 21438 98684 23423 43877 76069  
42228 01954 85029 46493 28496 58245 62233 66229 70670 61107  
09068 25808 09568 30428 78946 37197 04508 35234 54194 72927  
97706 59437 93497 97114 38151 64934 66181 30575 75875 06763  
46729 17189 62595 79997 68003 83743 19619 03065 56589 10405  
58981 67178 98706 54028 68747 06572 10126 91487 98397 69218  
08525 75211 05265 92731 11725 18114 47932 15122 10245 50103  
37547 75109 87604 13370 82982 81675 86827 88621 90776 57534  
46560 69466 05806 86223 55272 27131 03613 17497 96950 32695



70327 10694 86735 29030 31133 20803 19944 54417 00000 +++++

**12184/10169/8079 kHz, 10-02, 1015/1025/1035 UTC**

55192 90180 57484 61789 77137 22542 15549 48930 74575 06585  
60967 06624 39016 23382 91655 62224 71062 70160 39813 82071  
04156 97791 53142 46344 22564 19483 32019 03691 78291 14085  
39825 91584 36611 72478 28589 33339 04883 60456 47167 47721  
24377 96545 24120 32098 29762 68220 42488 05060 05955 34916  
48644 19451 97034 91307 62424 81746 46877 89274 80706 38718  
76229 42001 91641 17320 25890 58629 41707 28733 20693 82933  
22794 55071 00000

08163 12241 15741 02402 74711 22243 69498 77345 17219 58766  
97357 69327 72869 77351 00046 72092 35952 52245 37828 07156  
90002 55883 21688 48460 74812 12694 76090 04930 42995 00658  
40517 96885 85781 99049 01949 87240 32747 05821 75503 53415  
55149 73037 75399 10917 27570 33833 43445 24513 27539 19291  
27224 67946 77839 88715 25188 18113 61175 21716 40821 94660  
61889 45540 13082 80925 14415 96109 15295 87162 63163 36172  
39692 41990 63513 79027 09787 23005 78611 91259 87762 62483  
51652 72900 69069 89124 58340 38482 81422 91768 69211 47401  
30373 16017 76508 57036 58653 29707 65292 97061 11478 18169  
33479 88382 24993 95206 90492 55142 80049 56107 00000 +++++  
+++++ +++++

**12184 kHz, 11-02, 1015 UTC. Wrong 100Bd speed**

**10169/8079 kHz, 11-02, 1025/1035 UTC. Not monitored**

42932 41119 04200 84662 57864 47347 92286 30423 17333 03169  
64479 35232 52686 96906 20282 61031 71764 23485 12898 41785  
59121 54268 17197 17050 13582 63644 81365 83991 77104 17034  
85695 85049 40845 50002 56926 73435 46397 93188 11605 23651  
97122 22711 26874 7&204 75517 40750 62152 54738 62556 26000  
80119 34722 75917 38663 40462 35922 01132 65692 64809 25833  
02416 88948 96294 14244 74295 71982 02190 60144 99875 50106  
93037 61144 66697 33461 56728 17606 56137 01758 30954 88667  
92277 92381 62478 82349 61191 40548 26667 46929 36966 51193  
05696 55774 72617 07294 48906 02820 50232 44304 63707 50879  
87256 45381 10500 99970 48895 37114 00027 67855 19142 90414  
16616 99965 29177 56281 15725 50917 83682 91112 69254 04796  
31004 51250 57042 26390 88089 61461 27991 60578 56166 87022  
79259 22044 28058 64110 26965 42511 93118 68180 66815 67685  
90691 25019 48129 21089 98039 94160 09670 76984 63690 79357  
50733 09559 22129 45780 35925 10569 50773 48655 57071 92634  
55171 03006 00692 20356 93361 49199 94474 36459 75332 93980  
31203 75139 98508 31681 93548 79809 05221 75294 28189 67423  
73077 52096 42673 06567 74187 43510 23485 01513 64170 73893  
98734 99415 86883 77936 93906 62843 05813 01371 54127 74817  
98062 14650 31361 68574 71877 44326 59992 99211 93638 51770  
69218 99419 35268 03957 05706 86481 77986 85981 64925 12733  
33348 50004 54627 76662 67501 80307 38875 36847 39617 79154  
36088 95906 90398 63135 69524 46661 41646 04689 93636 97690  
92772 58487 44758 20470 25253 27377 89525 85276 50898 47546  
69509 78055 64933 97630 65459 15426 89787 61425 29627 00022  
20543 98898 59583 83355 07994 05196 11988 28380 40222 62317  
79725 88954 08666 13160 80869 48385 69579 12609 32892 84239  
36854 35370 10567 51619 67119 45226 11006 02711 23064 55407  
74254 80333 25924 34759 32900 66108 33060 39403 89110 53027  
01580 74573 42562 82020 74573 42562 17678 71287 46361 47715  
63622 09970 06351 89431 25486 07876 49657 29060 10100 18275  
13218 79186 94915 76060 84651 18706 53390 18419 74375 97141  
95314 80207 61253 06629 45513 81235 97710 51278 09370 47612  
85274 68574 98600 34378 56445 82520 15721 41586 23865 93209  
20640 41028 82697 32505 27826 55794 77184 40523 07468 59855

67280 42607 89083 89841 56338 31471 91008 86231 65760 84212  
24195 06107 67556 68873 43771 74688 10760 20241 46786 67827  
02619 89960 39588 42632 30515 97919 23269 58439 35540 47806  
70608 55299 73675 72810 92963 82161 25497 29897 20540 91971  
40363 64075 44466 45831 26007 00116 94141 93438 19476 41007  
48259 21987 00362 77840 02966 90701 32243 40800 45586 93211  
43301 45960 07350 14942 82024 17572 93564 77711 08950 90518  
14660 88727 10375 22642 66556 36158 44989 71613 33780 98476  
59340 16048 13780 59766 33095 25543 85858 57447 00000 +++++

**12184/10169/8079 kHz, 12-02, 1015/1025/1035 UTC**

10804 55486 61697 28550 75822 72246 54906 97007 07012 56991  
43996 76223 06586 45664 08076 33690 46739 47946 14079 71726  
52332 29426 71372 19276 53597 43872 36853 76131 01045 76532  
75222 33054 59773 84416 04116 16193 25354 44480 78796 29271  
28491 45661 96072 91958 20630 85696 22154 97872 57721 58671  
74110 40645 24311 44214 09642 81496 65145 34305 04826 56747  
16494 58604 24546 48713 54359 94266 15291 68410 01771 71155  
74986 23521 62344 08411 79583 70045 72309 43301 71064 71085  
88167 38297 36559 58083 00000

51326 64784 87258 04843 90457 90037 85602 77574 62203 04332  
10608 48694 40338 68134 97496 33731 74650 66091 23080 59692  
89899 45616 17476 17380 16139 12227 59513 32156 11317 86297  
79261 70363 62097 50929 16132 23568 73845 45623 05982 37827  
85711 85436 95658 80162 71744 10321 08422 59429 13984 94313  
08685 43763 58458 69296 39508 41802 90034 42971 31285 39863  
87048 15783 05057 12262 41660 26440 18889 46967 56870 80740  
30761 53771 56133 43393 76390 47173 66505 97501 85437 21150  
61262 01424 84524 58013 72937 97672 60514 38535 12693 53564  
82474 59091 00000 +++++ +++++ +++++

**12184/10169/8079 kHz, 13-02, 1015/1025/1035 UTC**

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**12184/10169/8079 kHz, 16-02, 1015/1025/1035 UTC**

14398 27197 08143 46182 70734 29257 45621 95928 63550 75368  
94435 71804 04591 02058 01252 02333 87422 06931 77907 40725  
23203 46228 82927 41196 65983 80132 41802 29121 07265 64261  
98225 25980 44468 10798 13484 15031 53028 67686 56166 58630  
16777 89320 49403 03162 96325 97190 67804 32500 40118 53898  
01302 55940 67844 98986 28062 41540 80912 20034 63679 30817  
79650 57426 78816 95719 91940 66271 02499 23826 42962 83868  
53233 42708 20738 76189 65152 19384 17170 61798 01358 95810  
49246 36647 71668 46349 90115 48194 96943 68139 64711 92271  
87176 40322 89612 31144 25545 13047 61831 56200 75613 12204  
26218 43710 53850 70808 76155 77078 34688 22998 67258 34051  
80266 21548 48732 62294 12091 64869 42104 91787 66757 44417  
22006 57476 02955 48442 78689 30616 51927 83030 66970 82234  
28567 96361 71288 27179 45359 17138 41562 22149 96328 43093  
79537 16184 03202 40559 80310 77018 40965 40981 58709 41765  
84999 45363 15236 65345 46990 72550 21236 65107 91785 12297  
28000 85083 52413 69062 29481 28307 85413 07463 33303 30629  
33704 35322 19767 74491 89144 85253 93529 66061 71999 80726  
57644 24191 69482 97526 64652 54634 00568 56577 24416 07947  
99261 09038 73375 44521 33517 99629 34914 55185 01981 19118  
25536 10807 75758 81897 86518 39335 77389 89604 45751 53727  
14216 66711 39433 79187 08327 79021 48318 53162 90286 71020  
28209 96523 48803 83006 39362 79381 53554 33948 04518 29972  
93337 80995 50230 60032 96745 91596 11175 05134 27544 89145  
02148 03382 71946 58101 87412 60943 59969 19521 02112 77813  
88058 12937 05405 32290 35175 45519 70039 47564 89514 94467  
38037 88883 28076 73552 97169 64720 16234 99759 57935 30372  
19527 20975 35706 17457 44838 90628 67734 37707 53156 00265

19721 34532 11109 05947 61606 80762 73452 09455 17302 46028  
13702 80200 18027 82202 45101 28808 13949 00346 99104 68288  
23807 37597 53570 23751 27223 37441 27849 76584 29361 91790  
86947 54052 52647 18325 21973 00235 35229 71517 99022 89252  
40852 10798 93729 66718 09857 74270 53628 30343 05976 31448  
55549 85646 38613 13418 50219 37697 65310 43891 11250 04824  
04065 19570 30717 65246 10205 13262 28500 72545 97501 98195  
67588 00918 08208 16957 92525 06158 61708 43494 33185 13303  
36470 11628 41074 66861 64987 08505 50329 04597 46392 56422  
80625 40764 06436 31480 24149 69773 59520 92475 83851 26187  
52464 18500 55161 62014 94698 78654 68328 27219 04574 82341  
33615 64392 26466 83549 56496 53522 98376 37592 15072 67798  
74702 33714 16871 26386 33872 52021 77240 55119 25532 60409  
00000 +++++ +++++ +++++

**12184/10169/8079 kHz, 17-02, 1015/1025/1035 UTC**

82773 10094 38944 37930 98939 21416 81121 42172 14553 09667  
64229 21567 03754 81565 76918 69639 60517 13696 10677 61679  
25523 05626 19176 20212 57269 54214 83567 10255 52110 72554  
00934 50298 42907 01980 38063 49948 30979 90567 17752 10161  
31045 36596 29800 47018 33840 20373 83921 24971 16092 72878  
46717 10499 52554 54669 29929 82111 09773 43469 22147 57637  
26278 53887 81161 24735 08899 37708 29149 85566 99861 38178  
17873 51564 94396 96744 56096 61075 00000

94033 06265 62239 07061 35128 16399 58000 20212 17062 29108  
47595 52608 72154 25107 05167 02870 08034 90165 72729 21864  
58021 60786 57283 42023 46456 44582 01459 74331 92402 32551  
13642 02685 00170 45434 68501 30290 10088 81336 13872 57811  
07971 56816 44913 97938 16719 58605 31497 56069 18475 48174  
09760 31795 80790 86307 73737 20866 85235 69893 28054 22346  
81882 98097 87565 80617 18111 10133 34929 16945 15161 61787  
72010 30276 90882 32914 26075 71961 52113 83063 96712 24100  
05119 97452 54410 36174 57544 90445 26730 99680 10298 58749  
33018 65428 62820 01497 53590 33213 80169 49421 44323 68527  
95355 70286 32597 26021 45373 42790 55522 84381 64358 16098  
26385 22329 82309 62113 00000 +++++ +++++ +++++

**12184/10169/8079 kHz, 18-02, 1015/1025/1035 UTC**

19431 61368 01378 72616 72524 54291 34286 27366 23211 04483  
49168 05584 95591 25265 96616 17456 12794 23808 68689 58103  
34915 16251 77109 16283 31506 54133 73492 94679 14010 59788  
70069 32260 41302 22775 65586 52511 54614 43278 06062 85989  
84053 33422 35100 40630 93878 12430 13437 18244 58742 56568  
12423 00643 88074 89814 11103 53835 40796 26188 51611 23722  
97556 99668 32547 21733 82674 42667 45030 23847 52975 98950  
81114 31427 95070 78198 76925 67302 02734 41643 16527 05553  
13177 11149 62229 58414 41704 87309 72658 68751 34656 09854  
31637 81541 21183 20899 06557 92788 51594 98436 94579 99323  
40105 38801 78718 97922 54154 72041 48458 07171 17506 46147  
64614 10524 19296 41053 73127 44000 46230 98370 97457 76935  
80112 77776 64292 59239 27892 76005 42231 33599 76417 69367  
98157 36058 89087 65747 00962 33413 86580 77009 27326 70865  
78857 47753 49239 28358 40614 01347 07945 09052 47393 89196  
03994 08357 14508 54162 58107 36980 06003 44077 22519 96398  
05813 36307 47500 30228 68319 59269 32743 99898 90483 21880  
18300 58082 72760 86829 94754 18322 60958 48659 37324 44277  
86244 02550 93573 07047 45495 14779 79428 83988 89145 30767  
63178 97482 08764 81663 42156 17077 41507 75409 41776 73440  
33673 83201 91632 57579 30504 57309 58326 03742 84463 41179  
39721 79449 99150 57753 50316 31097 51041 86959 52414 58553  
56263 68287 12782 17212 74562 89410 89485 07907 67674 46773  
78585 44162 54271 89088 75387 47175 28686 79690 29932 72009

35583 38662 01402 83405 17787 50694 41151 52663 79425 49597  
59033 08026 31612 15417 52713 00006 12819 45083 04662 05088  
01153 82526 76507 16253 60713 19216 55441 93753 89217 01029  
32363 74576 59080 02423 16446 64042 69143 53819 15823 57965  
49238 33148 39068 68820 84758 57494 97168 54349 53449 35777  
10672 72046 91588 68401 51693 07962 31748 04821 75482 53258  
79323 94945 21221 26958 20029 95340 86745 68319 75523 16141  
06888 47283 49384 19632 90115 66412 30583 06422 93158 52788  
46688 50153 38312 63274 83941 66689 03105 51599 16434 28704  
30713 70696 11541 61623 84922 08732 03818 81855 22005 82261  
54541 63233 29715 34959 39078 42630 67583 15340 29280 00663  
20505 31932 63078 78433 26196 09327 18481 16246 12517 93540  
34144 25229 99346 80138 43718 27810 44696 63538 16149 27971  
39742 30954 19124 97232 82483 49401 47850 87287 84689 19205  
86353 05245 91840 92451 93477 12402 20744 79819 30791 32487  
44516 94223 74563 80319 79609 04717 79016 46810 54581 99079  
83033 01254 65286 78543 77511 96836 46190 33075 75541 90309  
12469 70669 52621 11758 52612 99080 49055 45406 76194 83433  
51768 07394 46505 28148 97689 31464 52741 56625 65911 98497  
01431 63431 00000 +++++ +++++

**12184/10169/8079 kHz, 19-02, 1015/1025/1035 UTC**

52514 78815 88681 22424 01188 10341 83098 58425 00693 04865  
38266 34795 24154 25054 27748 95487 47082 02149 51181 30862  
57085 28270 14550 72767 98053 21081 72268 98712 59750 15511  
04516 12302 48755 62203 28265 92135 01689 37407 65445 26344  
26664 93960 16663 74962 83892 08097 13928 27324 41393 01721  
50829 46652 66734 44873 13578 19060 40746 68051 61375 49122  
04148 39083 29531 69219 73018 84241 53771 54841 84056 58278  
39183 63030 55557 93076 22214 36161 75055 79606 99185 38239  
49561 62860 19744 64083 00000

16040 93330 42165 76779 19768 97790 95812 12994 96880 44323  
37126 81865 47970 09494 91976 02956 96887 17814 84161 76480  
25849 60994 50441 52230 88753 08321 11136 76311 13674 62818  
69728 82916 30432 42913 39912 23295 84220 94268 23511 49125  
21189 61481 87722 92457 56948 74330 15109 09441 63912 28265  
24783 79996 38435 63816 88225 80635 33662 74622 88162 72618  
69051 98761 93947 72623 52479 73057 51896 98125 75893 55078  
13981 04677 70435 42488 53359 57252 31964 44451 40144 02887  
52942 84776 75876 36747 21596 41485 10113 78870 74303 52496  
87595 03714 12139 42105 99410 65095 00000 +++++ +++++

**12184/10169/8079 kHz, 20-02, 1015/1025/1035 UTC**

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**12184/10169/8079 kHz, 23-02, 1015/1025/1035 UTC**

29069 42443 06906 18083 47808 38220 87114 80346 38175 50028  
69761 30258 64382 30648 52315 98010 66647 02328 26849 23149  
13550 37342 76592 06065 03325 83183 95624 75235 43759 80818  
73901 81110 65396 49443 14810 52600 47727 36188 77414 77100  
63052 54198 60612 89984 67715 57525 71360 84514 95378 26281  
44180 78091 32048 60478 04111 95794 77508 06003 90315 57143  
22889 61145 82514 77019 99017 37149 97435 16685 75267 71184  
47482 45838 13578 15219 78782 01639 07345 49185 30828 55646  
59850 91920 84884 24606 81943 08284 93349 86018 13637 35910  
07267 84429 99320 80029 44164 39387 71277 49787 63414 90988  
21186 34505 41300 43971 64299 43332 62980 96261 25983 56691  
73527 62956 05313 63004 55248 31627 95403 79084 23446 09928  
65165 77679 57841 51417 32172 70564 11819 70543 81333 20646  
66688 82725 09057 81509 23163 30470 97576 87841 47226 81460  
49155 45168 12582 09559 34831 92350 06871 94649 37406 35271  
93850 02276 93360 75145 48717 28993 63374 79903 08756 24384

86156 72076 06513 25673 95263 31617 77676 65871 03584 37114  
60854 41401 85198 93801 31425 50127 09280 21844 36663 35731  
05741 03297 24328 99378 67302 11207 81884 64606 17671 69268  
28567 06366 00530 15492 27455 80169 69002 68314 09762 12271  
80307 18578 28511 36814 25263 95840 83805 90900 47349 82426  
86850 03493 31012 73676 54953 39115 63882 07823 54645 82267  
02619 13937 35156 73506 97046 51369 19397 33117 52283 39145  
44649 33328 33545 98726 70154 04992 43311 58599 93782 89678  
25541 94108 44970 73117 76633 00987 46114 60925 67804 26018  
59613 82550 08586 03254 62739 34387 06116 69247 17530 97980  
99927 55720 27883 94266 76907 83114 01055 59789 96117 03452  
55729 55824 78168 65957 43869 46351 38834 03870 78511 05813  
71587 65876 84716 42591 08754 40624 15847 49154 15958 47726  
02361 14787 99569 93710 25322 61870 31818 16356 31796 91623  
23270 65833 34331 50263 97357 96106 61710 51502 46654 65025  
53158 16344 75560 66546 13195 16089 59115 43517 69317 29512  
72605 54469 99705 50124 71656 92849 23134 04486 27514 82132  
68274 67475 47168 95244 64585 85482 33049 71750 21968 43440  
61947 31221 91381 36646 87864 06239 23601 33305 98477 43463  
68306 38730 79902 46203 80696 97146 69447 56934 27802 92023  
01041 03184 11698 30886 73024 55248 51801 25533 92992 69147  
93427 03599 79378 13284 34818 12412 24456 02227 89798 01063  
48459 86054 28280 91640 99508 68717 61775 75566 79014 53822  
66119 95955 97261 41316 58588 01963 88863 23467 71602 86027  
42754 53615 90189 39974 26427 86103 45418 90893 09100 10845  
80965 02749 13492 30948 35018 54637 50893 66417 00000 +++++

**12184/10169/8079 kHz, 24-02, 1015/1025/1035 UTC**

22432 23212 84458 19049 66901 71337 97629 65879 97241 60524  
13711 10588 10169 11442 96468 49129 46081 04173 11831 13657  
53305 93229 71676 35229 20422 62886 79295 14830 50081 90044  
12433 67031 00000

91346 94994 42744 73995 42485 19769 73646 71759 88111 34563  
94109 72447 13000 14197 07991 19148 26612 51076 77782 01634  
39412 80502 69913 76645 33025 75225 46254 19129 85182 13919  
25238 21619 35391 53264 61056 83954 02257 58346 14356 60516  
88414 71024 12876 57164 33988 20994 25467 95080 04523 09194  
97923 83682 24327 18283 24073 69811 91167 29839 50552 55383  
33242 52992 38718 00672 94381 94174 32121 55435 58405 22659  
02983 85053 48582 11596 76115 83881 63118 59224 53723 92986  
32627 19942 89513 64477 10496 99933 85568 39598 32117 97026  
10402 32777 03891 89485 61655 38825 07954 03408 21846 05467  
33576 13429 80628 38379 71141 56411 22002 30955 29676 62811  
99877 35948 63842 35407 50489 21205 21345 30080 15032 76665  
46683 18331 71007 64822 02194 36226 95697 31819 92307 68129  
00000 +++++ +++++ +++++

**12184/10169/8079 kHz, 25-02, 1015/1025/1035 UTC**

29069 42443 06906 18083 47808 38220 87114 80346 38175 50028  
69761 30258 64382 30648 52315 98010 66647 02328 26849 23149  
13550 37342 76592 06065 03325 83183 95624 75235 43759 80818  
73901 81110 65396 49443 14810 52600 47727 36188 77414 77100  
63052 54198 60612 89984 67715 57525 71360 84514 95378 26281  
44180 78091 32048 60478 04111 95794 77508 06003 90315 57143  
22889 61145 82514 77019 99017 37149 97435 16685 75267 71184  
47482 45838 13578 15219 78782 01639 07345 49185 30828 55646  
59850 91920 84884 24606 81943 08284 93349 86018 13637 35910  
07267 84429 99320 80029 44164 39387 71277 49787 63414 90988  
21186 34505 41300 43971 64299 43332 62980 96261 25983 56691  
73527 62956 05313 63004 55248 31627 95403 79084 23446 09928  
65165 77679 57841 51417 32172 70564 11819 70543 81333 20646  
66688 82725 09057 81509 23163 30470 97576 87841 47226 81460

49155 45168 12582 09559 34831 92350 06871 94649 37406 35271  
93850 02276 93360 75145 48717 28993 63374 79903 08756 24384  
86156 72076 06513 25673 95263 31617 77676 65871 03584 37114  
60854 41401 85198 93801 31425 50127 09280 21844 36663 35731  
05741 03297 24328 99378 67302 11207 81884 64606 17671 69268  
28567 06366 00530 15492 27455 80169 69002 68314 09762 12271  
80307 18578 28511 36814 25263 95840 83805 90900 47349 82426  
86850 03493 31012 73676 54953 39115 63882 07823 54645 82267  
02619 13937 35156 73506 97046 51369 19397 33117 52283 39145  
44649 33328 33545 98726 70154 04992 43311 58599 93782 89678  
25541 94108 44970 73117 76633 00987 46114 60925 67804 26018  
59613 82550 08586 03254 62739 34387 06116 69247 17530 97980  
99927 55720 27883 94266 76907 83114 01055 59789 96117 03452  
55729 55824 78168 65957 43869 46351 38834 03870 78511 05813  
71587 65876 84716 42591 08754 40624 15847 49154 15958 47726  
02361 14787 99569 93710 25322 61870 31818 16356 31796 91623  
23270 65833 34331 50263 97357 96106 61710 51502 46654 65025  
53158 16344 75560 66546 13195 16089 59115 43517 69317 29512  
72605 54469 99705 50124 71656 92849 23134 04486 27514 82132  
68274 67475 47168 95244 64585 85482 33049 71750 21968 43440  
61947 31221 91381 36646 87864 06239 23601 33305 98477 43463  
68306 38730 79902 46203 80696 97146 69447 56934 27802 92023  
01041 03184 11698 30886 73024 55248 51801 25533 92992 69147  
93427 03599 79378 13284 34818 12412 24456 02227 89798 01063  
48459 86054 28280 91640 99508 68717 61775 75566 79014 53822  
66119 95955 97261 41316 58588 01963 88863 23467 71602 86027  
42754 53615 90189 39974 26427 86103 45418 90893 09100 10845  
80965 02749 13492 30948 35018 54637 50893 69417 00000 +++++

**12184/10169/8079 kHz, 26-02, 1015/1025/1035 UTC**

70133 81148 68171 92121 26710 51970 55611 64256 03349 21528  
67928 12068 91407 96194 59915 99148 31978 72035 39895 82127  
58265 40437 66635 38998 56028 84076 97928 55769 15527 30404  
26766 51082 73412 54838 66049 43524 67993 50847 67772 91284  
56319 09125 87618 58882 66518 73022 30897 90615 83826 62447  
40772 95444 93746 83401 14711 72988 30771 65354 60093 35317  
06111 93633 24920 04240 12865 29022 64550 88761 32069 31755  
30421 72407 88061 32090 91668 65094 26601 14654 25605 99247  
14176 70081 00000

40637 15876 26413 99154 29982 78825 17088 06300 05171 05090  
65163 56120 29900 48978 96254 22079 73422 41391 63086 33882  
89710 54416 12206 29814 72898 47270 57443 42767 81173 54523  
64789 43401 46320 02550 78395 88863 11089 65135 42363 50522  
61588 94185 98032 19132 46883 86468 61439 10886 02988 72325  
10639 22778 23443 37299 37582 10722 43656 12608 44224 88863  
31206 95396 87562 73519 99287 84723 03291 20181 85492 44198  
62747 27025 63101 27217 42860 03364 77092 25741 13758 26478  
22043 28538 73749 35259 04103 99842 86357 34110 54254 14354  
99085 05540 85011 09530 48610 54880 07779 41097 82090 35575  
53033 52719 49273 28472 60527 95771 45094 73549 31700 60142  
07446 77534 61482 02011 99815 71115 00000 +++++ +++++ +++++

**12184/10169/8079 kHz, 27-02, 1015/1025/1035 UTC**

00000 +++++ +++++

***F02 – Russian domestic net***

14983 kHz, 10-02, 0745 UTC. Test  
14983 kHz, 10-02, 0800 UTC  
14983 kHz, 17-02, 0749 UTC. Test  
14983 kHz, 17-02, 0800 UTC

14983 kHz, 27-02-2026 0624 UTC  
14983 kHz, 27-02, 0636 UTC  
17432 kHz, 27-02, 1040 UTC  
17432 kHz, 27-02, 1050 UTC

## F06

Link 00000

### 9481/7362/5783 kHz, 31-01, 1700/1710/1720 UTC

#### 12167/9944 kHz, 01-02, 0830/0840 UTC

11100 00000 86341 30034 02339  
93011 79139 02127 36914 25754 47721 87628 68713 62761 05542  
54218 56965 19893 67320 27613 65872 71251 44078 40428 21081  
32943 30678 13641 35756 87169 95033 46355 78148 13835 04903  
93555 79110 21864 53228 36534 02989 97415 67946 75682 30331  
11175 17202 00335 25849 51915 45915 15348 90076 78521 04637  
29109 18146 07653 56618 32656 14142 79239 74045 24595 34454  
66999 59375 61511 58570 26164 52695 38556 10753 95591 11071  
29892 81023 96469 70789 43689 18915 94785 28460 71370 98397  
19753 01896 35766 77450 55377 56719 67893 00689 47368 09629  
67034 18500 92554 44257 23799 21116 03018 00576 10868 11073  
62113 23762 71093 62479 14581 83481 57659 40544 57917 99513  
05972 79787 27208 34672 41978 44393 90608 40933 56597 19116  
97648 69738 00958 04199 47568 82387 82115 12729 69844 21467  
63952 93877 34128 29250 02937 30447 31757 24014 73433 84181  
96032 70196 62255 87261 53463 03342 37136 03434 23147 95767  
18822 07203 06485 73894 11459 54527 34420 23169 70969 43458  
64375 41527 16111 88160 44095 27326 11886 54739 84557 12689  
80013 32335 09170 78192 16136 37898 71407 09849 18446 78096  
58109 84299 57437 16793 20593 93178 41445 21523 00804 42565  
57683 87411 44657 88479 93452 61973 19784 94346 67213 19230  
79854 21368 24213 56574 42676 87745 76341 12836 74240 57694  
90925 30965 95920 46163 58125 13793 57001 50233 91638 46288  
39724 43103 42391 82760 89044 91609 29901 22435 84278 83228  
21009 34231 00000

### 9481/7362/5783 kHz, 07-02, 1700/1710/1720 UTC

#### 12167/9944 kHz, 08-02, 0830/0840 UTC

11100 00000 86341 05035 01779  
33129 79822 21816 70706 16348 08348 01489 28837 78392 38315  
64009 74669 22824 82425 22358 95541 73517 70971 57569 19456  
59620 70366 80104 65683 87321 35750 61630 47415 71876 64863  
73147 06161 28326 45379 90408 82564 44339 12885 52549 53339  
83625 61687 84887 88995 93350 75642 21818 12069 13998 71191  
90741 60513 15096 69794 42967 85962 05279 41935 42521 41541  
90088 89912 48813 38916 75975 61572 54076 79269 43921 12192  
61536 87886 41135 56700 15242 07048 64249 79408 17484 26907  
32460 93453 94764 59041 74039 67133 98222 82369 74676 59331  
49483 16122 61059 31194 67845 99542 18154 26289 39758 83023  
63616 36382 16525 60347 27766 95070 51152 96734 12559 66417  
10319 32378 28014 20800 22358 66151 29508 15157 47227 49180  
04391 19809 79379 42970 81356 59057 19490 21768 61001 57730  
75960 23845 91010 10884 82149 81403 34423 18828 40265 83776  
04379 54674 27851 53617 63830 56589 27809 40766 13616 61946  
67897 63480 17358 25556 80634 51713 36615 89162 19556 72132  
74720 94409 92746 39563 52752 56436 99609 44549 66074 40313  
81785 51705 94873 07497 24168 35175 00000

**9481/7362/5783 kHz, 14-02, 1700/1710/1720 UTC**  
**12167/9944/7362 kHz, 15-02, 0830/0840/0850 UTC**

11100 00000 24896 13036 02819  
95832 46662 24265 32523 14804 55007 44281 78258 42744 46007  
30671 41653 89504 91542 30990 76284 76954 45865 15984 08310  
73062 09726 68980 27206 64348 86404 34768 73874 15156 71811  
38870 80794 87176 45865 13178 43919 17666 57323 88860 30991  
79792 19263 42508 55978 73544 57387 06420 74306 20649 78356  
79004 78576 61930 50319 96206 99468 80540 12851 49911 41497  
99517 58457 64254 08324 27091 52864 65781 97308 48175 86252  
08398 67983 85500 72639 39030 14139 78806 39600 14958 94218  
55535 75498 08738 99693 91474 26431 61665 66116 84771 60060  
71705 56537 91766 38540 26842 71971 98083 67698 19761 68609  
23408 14682 04834 86439 83392 11251 83311 19002 57134 84896  
27687 78929 33652 84985 81149 38983 35806 96103 93078 53260  
45096 55805 76507 88268 75775 18933 98496 18552 71725 35714  
39361 66546 24506 35813 81670 91376 36054 35525 14987 56249  
74434 10307 67249 29159 96100 99821 98764 96578 33096 37696  
19731 94823 68631 23169 17232 88780 49483 76820 02644 52689  
08647 47575 15390 32662 96670 63159 43976 95624 45132 41202  
50256 94374 10675 03171 07853 03441 73044 58325 90673 05428  
85577 49877 72470 32542 01556 80546 23361 92970 24889 59699  
14271 36825 58544 39254 65217 41309 49168 30545 98376 19826  
51338 19333 81880 84683 59886 21143 75266 18118 83709 44126  
12529 31290 59547 51628 83705 15964 29112 41647 00936 18554  
28054 85380 59928 91209 60174 92037 32777 99653 55324 92109  
53064 92433 34445 56283 79182 61295 30161 92188 46821 47350  
36385 86167 46543 72735 85363 82243 87409 02451 75603 15491  
32562 66052 99102 41986 17729 93906 41356 32526 88565 47672  
52532 22303 17793 49717 13288 33730 88050 41141 43656 14588  
51410 23107 28420 58705 01494 61150 57449 01331 19116 36279  
00000

**9481/7362/5783 kHz, 21-02, 1700/1710/1720 UTC**  
**12167/9944/7362 kHz, 22-02, 0830/0840/0850 UTC**

11100 00000 51623 20037 02259  
68542 20881 78083 37089 99258 81666 55834 83913 68541 27995  
07649 46870 17899 23335 05536 34332 05771 17775 64366 17787  
50323 80730 99160 87060 49287 18906 08653 36879 56545 77950  
77314 45722 20133 51240 13016 32895 11359 44226 62521 04766  
99728 67790 72013 26093 53353 59039 84805 77396 69530 52974  
93468 84293 65195 53488 88526 29754 81918 77101 70926 85189  
85145 67905 20469 21345 62354 07121 37370 84895 49837 65728  
99174 51719 42773 73607 00175 92755 68296 03609 65534 13405  
26234 94010 57323 52399 27216 57789 14615 51082 82821 52143  
94867 29040 27480 06712 08753 27014 76787 33920 65636 03038  
51937 69891 71886 92731 24956 19359 49200 69699 64423 03030  
65143 66955 86369 30814 93077 45331 40035 49383 43674 19783  
83184 37474 35199 79550 26653 47383 94743 63110 52823 16100  
07618 73833 37716 94495 57059 47321 31374 68021 21471 06324  
76245 67346 21363 64207 68233 92375 33189 62884 90114 98083  
12265 56156 72008 15602 91957 74405 58578 06997 51329 31574  
87667 77181 68427 60357 10042 91384 01410 86569 04934 71632  
64679 78594 71082 70668 92238 32883 97936 46749 05429 81412  
46731 87763 27258 32065 96108 58096 10492 77849 31986 66694  
71709 35907 86336 79751 48494 02244 54594 26464 21967 33120  
46356 71294 71831 89038 49070 51167 56127 02266 09404 01052  
32881 53833 61970 16360 65839 70935 60111 25591 81465 80690  
88415 71678 69398 37223 00000



**9481/7362/5783 kHz, 28-02, 1700/1710/1720 UTC**  
**13547/11514/9426 kHz, 01-03, 0830/0840/0850 UTC**

11100 00000 85271 27038 01769  
48926 55186 44535 83875 80407 71431 39369 23269 89334 05053  
98415 03176 62123 84793 23658 99886 87144 62051 94821 00680  
19024 76136 14390 22636 41474 12200 15995 48348 14610 81520  
84629 20717 17659 78852 62105 64016 23033 96505 36210 23409  
62678 99848 36989 40114 72649 93931 88596 04406 26843 35906  
90145 53623 95827 72936 24006 07403 91714 10278 14974 57288  
84997 39231 88769 52934 04296 79640 03271 52076 54960 16626  
50956 26455 17450 36252 55966 40889 11440 89799 14235 47679  
36588 41345 50123 63527 25892 78325 87995 21169 72595 89776  
62174 12896 16553 41942 13711 68163 01013 05926 47414 32466  
35747 17083 47560 39670 27464 70843 75745 94990 63443 84641  
99292 10801 59336 80649 23669 62460 07058 69000 27343 56353  
83712 36183 22523 27316 07507 68303 90203 07652 51548 63898  
62980 34911 51515 15980 54038 90631 68099 68014 55787 87220  
90170 73513 56549 45172 89607 13915 48757 27802 63724 54472  
27095 25688 26227 42795 00013 08009 32650 79777 63060 82960  
51201 17559 07476 34448 14948 64230 62467 27226 16297 99969  
94613 97693 29695 34283 38174 00000

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**10421/8016/6812 kHz, 02-02/03-02, 0800/0810/0820 UTC**

11100 00000 64297 30029 01659  
12666 52155 46191 78534 72199 30855 53726 30822 28866 01168  
94396 50726 66110 50906 35184 87672 78689 67009 51564 98027  
18339 32647 56829 10430 14158 97871 99073 29489 84876 09742  
55550 26311 85221 12849 79076 89272 53532 56197 76176 33486  
52850 67369 21648 92397 22643 79910 39250 39947 83365 24877  
03182 16732 61036 22478 40055 58621 24027 34757 36040 51232  
49239 65245 78880 58742 59869 16520 89449 00438 01940 41618  
22554 73465 51787 50228 41655 45211 71699 55612 97209 63737  
55874 73177 63311 59734 33912 06659 12314 38407 24004 82824  
32138 84745 53017 20662 15936 30602 85668 45970 78812 57036  
29957 87300 81275 30337 11065 14185 64122 95188 30893 03583  
24431 73386 55432 45492 87360 41572 97159 23654 53429 86398  
84632 32296 25978 60583 36482 14847 48493 88266 81991 35561  
06478 93138 95435 19990 73567 47741 36384 25242 06566 67415  
13151 25961 19095 97300 11568 26966 88549 65846 56283 38490  
76034 03267 96769 74955 63983 48361 35219 63217 41137 92172  
38524 71218 89572 29163 00000

**10421/8016/6812 kHz, 09-02/10-02, 0800/0810/0820 UTC**

11100 00000 84297 06030 01259  
93252 44708 95052 43260 47631 15560 57654 65872 48044 51166  
87297 91566 61073 24951 28608 06049 03120 33243 09888 59105  
39488 59481 07878 07171 91001 76015 00511 95842 40316 44440  
12341 05778 55133 00405 82334 10393 70492 33833 08712 18835  
97335 00486 50530 02633 49529 25815 90687 29478 06524 87036  
90045 52576 53856 84364 87346 29001 68662 37345 24628 65485  
42403 67219 02800 15101 57980 51265 97099 73240 63438 60050  
87085 46370 09430 13521 80878 91956 42649 16894 38320 53037  
72398 62257 22753 35849 52488 06834 36095 03961 45667 63850  
16905 87353 62747 66927 06126 29871 93628 93958 10186 23492  
72403 61386 16153 02859 43737 24830 38633 98489 22697 47005  
03086 72125 65230 18855 95253 82641 91474 44846 31404 55965  
29084 28369 29039 30123 00000

**10421/8016/6812 kHz, 16-02/17-02, 0800/0810/0820 UTC**

11100 00000 43581 13031 01199  
70777 09751 92102 11528 23182 60074 92560 94649 26063 26378  
61203 11673 21150 56246 05657 24238 09193 91192 97324 83574

92407 47654 20136 92996 80704 16847 13533 41589 53856 44391  
14386 32521 96822 75669 27517 54425 50404 77843 79524 69285  
44415 74463 35605 15261 05559 53622 84039 47888 57208 35569  
18048 68108 53255 10746 69694 10539 13244 84161 75532 90437  
50947 87062 78672 32803 13596 41812 96962 32034 73938 90939  
11976 15595 42323 26287 58477 10124 90976 79184 19076 33418  
07689 57605 53730 60737 21078 41228 18812 38859 64615 70344  
55405 46327 71623 89555 51533 23328 18399 32191 07997 19635  
57689 56383 62508 34053 09668 68749 51829 43809 02634 96592  
16564 47319 80593 94594 78333 68771 19934 31117 00000

**10421/8016/6812 kHz, 23-02/24-02, 0800/0810/0820 UTC**

11100 00000 25961 20032 04539  
09596 49242 21734 46441 60924 11648 99594 49969 74983 90486  
68829 32955 82090 27454 63469 68372 36162 12327 08361 35201  
80897 82620 61167 47225 87540 81147 43933 29593 31410 07428  
43888 41560 99389 23886 88164 68870 45563 02766 22142 34197  
37177 24713 46085 99088 58127 64943 89769 55861 62151 27960  
29789 32862 92915 16736 79216 61554 13181 47304 04329 78855  
10246 44699 48056 63165 69837 81189 64867 27527 35653 42717  
96762 18346 96732 34515 45073 93121 69849 61808 17738 75617  
69106 46560 56770 11910 79933 66182 75579 75749 79658 25164  
60839 96683 71854 95540 18608 09366 26638 87156 69359 47496  
44120 33638 21639 30822 83178 05039 79013 18654 22760 83077  
60008 28313 47882 59911 35731 41961 77534 46376 14843 50248  
76657 00653 30592 06211 19397 13261 09584 87864 95805 09353  
26971 92924 79203 54225 77764 14093 96355 72989 18938 68349  
67677 20340 62028 78680 09648 61360 20905 31695 16614 49298  
44406 59550 64176 11258 88525 19631 01347 77728 07838 70425  
23666 16907 70844 67024 44457 59742 28945 24691 06418 26637  
93693 23934 00733 91746 02057 55516 85887 45817 74341 28853  
23382 43491 94482 92217 72524 46030 67392 38202 11493 95377  
33034 92876 76857 80509 41934 12067 38744 82012 21799 33209  
53832 05813 89936 56196 63368 42012 91166 51680 28393 09754  
65900 20240 19358 74059 78097 50874 02325 45582 57755 52243  
88932 99203 37652 55108 42330 72414 89006 09389 56243 29421  
85758 24301 49377 01911 52138 24987 42340 42414 73239 24093  
09274 51205 73256 31722 21377 62670 91086 52207 24512 02090  
07991 41138 18078 48766 06981 21073 27348 66437 68642 79387  
86443 86917 33066 96687 74143 57887 82580 79221 69715 90791  
24975 93738 20947 69769 81894 28228 41584 07555 12102 26967  
80333 59290 24288 73330 28653 30183 59124 18786 59486 37957  
45232 81524 14147 16013 58778 63148 79535 68260 41359 56873  
22874 11545 55880 45663 76146 66604 85112 13750 87437 83504  
02604 19965 81349 12483 70649 06327 95694 56140 44998 40325  
86632 63913 90981 14321 19468 54780 40764 50526 87269 79113  
46381 84982 24510 55641 08279 28977 07916 44433 84022 31342  
61708 41875 06869 90074 09434 08533 68887 86698 39551 65881  
48329 41830 76987 22811 85907 15363 77835 17857 39704 99728  
89374 88090 73366 79650 42628 00605 57304 56849 69611 07541  
87547 63122 62481 10583 51982 10235 16770 45863 98629 50078  
25885 25215 85659 43504 19066 94715 17840 61299 59987 96441  
99092 65721 48192 44397 55849 46039 90546 50526 10903 06516  
34903 61774 12423 30267 83150 94108 47847 67444 25856 74462  
97314 21159 65670 26512 06341 29612 21692 61254 82420 67839  
31976 58295 45235 17537 96374 48802 85174 78376 26896 36057  
09834 19272 97773 14542 83196 93020 12426 73495 87172 62764  
29502 95880 60193 13699 15194 88705 92539 48480 14005 05620  
83103 32451 00000

Link 10053

**14983/13379/10948 kHz, 01-02, 1530/1540/1550 UTC**

11166 10053 32147 01001 00049 00000 00000 00000 00000

**14983/13379/10948 kHz, 08-02, 1530/1540/1550 UTC**

11166 10053 25843 08001 00049 00000 00000 00000 00000

**14983/13379/10948 kHz, 15-02, 1530/1540/1550 UTC**

11166 10053 95847 15001 00049 00000 00000 00000 00000

**14983/13379/10948 kHz, 22-02, 1530/1540/1550 UTC**

11166 10053 95184 22001 00049 00000 00000 00000 00000

**13377/12225/9139 kHz, 03-02, 1650/1700/1710 UTC**

11166 10053 43725 03001 00049 00000 00000 00000 00000

**13377/12225/9139 kHz, 10-02, 1650/1700/1710 UTC**

11166 10053 78435 10001 00049 00000 00000 00000 00000

**13377/12225/9139 kHz, 17-02, 1650/1700/1710 UTC**

11166 10053 71824 17001 00049 00000 00000 00000 00000

**13377/12225/9139 kHz, 24-02, 1650/1700/1710 UTC**

11166 10053 15792 24001 00049 00000 00000 00000 00000

Link 60070

**9358/8019/7319 kHz, 10-02/17-02/24-02, 0030/0040/0050 UTC**

**9318/10783/12175 kHz, 13-02/20-02/27-02, 0500/0510/0520 UTC**

11166 60070 98756 23078 01519

90061 26866 51892 39620 30783 09687 87380 49932 31312 11608

15382 77983 14328 42889 37880 96936 79972 57651 07343 47498

98175 45440 95376 21109 65252 07387 00422 61597 16814 97558

04592 90457 38944 37083 69453 89629 03360 14806 99536 61452

32712 33292 05936 92050 87564 47190 86571 15023 83975 80908

46938 52620 21986 09972 96674 69752 06355 07503 05189 11111

75549 47427 43008 81613 07028 92990 73510 56386 80117 69760

23496 51159 69043 06819 02009 32432 40602 00818 90391 57364

89402 65045 82832 63203 44783 40084 79694 50870 56671 01433

81744 55879 90163 43059 06626 00225 18182 10516 13015 18923

93398 31175 36965 51355 83075 30297 36083 89228 34073 74547

36879 92367 49379 14891 26434 63045 57624 47047 33441 74366

70704 34981 97620 82237 98120 82614 22430 72583 07260 35321

07567 80341 58647 93789 74617 03561 44411 00847 63893 74830

10360 02420 90151 42908 98163 46320 08095 85859 25999 78149

00000

Link 70202

**11048/9244/7319 kHz, 02-02, 0700/0715/0730 UTC**

File 44452 (binary contents)

**11164/9164/7617 kHz, 02-02, 1200/1215/1230 UTC**

File 44452 (binary contents)

**11048/9244/7319 kHz, 03-02, 0700/0710/0720 UTC**

**11164/9164/7617 kHz, 03-02, 1200/1210/1220 UTC**

11166 70202 78521 02053 01839

34682 97249 79271 69710 20541 77854 55169 95110 84800 24027

03273 86187 14769 55678 15009 34433 14661 02647 58391 49027

50952 75221 49397 07490 74400 17974 39852 88850 54648 26566

20260 81534 88381 32249 61002 83131 66943 83709 40363 34254

14370 80983 32802 53663 31766 41090 55923 66851 08968 00111

99566 45268 89434 81361 85476 98381 99288 84384 30961 85757

76466 74414 15001 41341 60891 77026 70238 27143 31631 07649  
49275 58497 01958 90622 38734 68096 08256 47501 19503 00980  
53721 59276 96610 57665 92776 32215 47174 27616 67149 22003  
59844 80225 29549 95866 64189 05513 15873 37380 73470 21703  
51896 23634 89219 91899 05362 29446 41077 17024 19421 38325  
60326 97206 88360 64847 10545 78831 61553 18151 23833 29406  
86563 61236 16040 07449 27359 45745 79433 19595 18547 26922  
76253 82083 41594 88439 81568 28834 33947 31769 48901 33293  
67007 09792 97034 36232 53890 09341 41456 96696 72900 12350  
18858 08281 17676 90303 78148 47931 09924 11683 36406 49443  
35699 67074 23204 18867 91140 41654 61760 33986 48637 89715  
60336 95067 79324 90939 12329 19071 92875 93086 28491 94498  
80516 53181 00000

11166 70202 86412 02054 02239  
30427 05066 15763 98978 99775 32635 92785 55263 13517 45273  
87274 42302 12208 08838 18825 84607 26094 88004 53073 96667  
34133 85150 14877 42584 30931 18795 99242 84480 37530 21270  
78451 11865 16977 60323 28812 69140 80614 14328 25476 23444  
96037 55802 78757 40007 32642 22909 10405 57222 05709 83634  
93234 78607 04966 22331 02595 23846 18552 03308 53077 06102  
88337 91163 18918 27789 57524 32542 61536 11988 96466 29003  
12628 11691 17661 55690 86273 64069 15822 05494 18480 81943  
94002 63384 57605 99657 61685 40608 54096 15524 15776 23439  
22988 98043 40459 16162 77583 48084 86822 82990 57769 34200  
18220 18591 01400 43284 32281 01907 32175 13744 95524 12978  
62472 43379 51510 17427 34551 89152 88459 48319 48567 01055  
77279 40063 50857 57219 15952 94054 80899 92514 41189 80748  
00410 37765 93322 07837 53007 11814 45353 09236 27874 33601  
32089 34556 25866 46447 40330 43747 51501 71738 46018 36614  
79256 34184 09301 71870 67629 25852 63438 55445 19382 01155  
58501 02707 11419 19986 45786 04296 42732 81183 13897 50272  
73846 13519 12417 92238 56207 16381 24119 48145 74948 67373  
71654 79454 53478 38974 69639 95361 93311 91477 58099 63750  
47608 34393 78199 33570 51818 73476 76184 98336 59917 85610  
46495 55423 59631 88690 49973 40847 65103 98724 68102 44229  
10446 91327 79222 33616 92604 09795 67657 44852 36975 86946  
01683 54221 00000

**11048/9244/7319 kHz, 04-02, 0700/0715/0730 UTC** File 44455 (binary contents)  
**11164/9164/7617 kHz, 04-02, 1200/1215/1230 UTC** File 44455 (binary contents)

**11048/9244/7319 kHz, 05-02, 0700/0710/0720 UTC**  
**11164/9164/7617 kHz, 05-02, 1200/1210/1220 UTC**  
11166 70202 63521 04056 01539  
39412 52446 53961 91523 95603 53994 44237 53516 48376 80648  
35109 14145 74173 79444 60857 15293 09824 46613 38055 91952  
65915 88190 37390 75080 59794 78779 46208 48054 16637 60638  
32714 11445 12018 50295 47772 35763 54427 44856 25244 06890  
31159 45227 66794 93870 66025 38402 22111 93754 62311 06025  
00472 33176 29435 51414 74593 31361 16731 62225 62709 54249  
02795 50947 99797 14413 13840 40419 33919 96464 69491 86555  
08583 12645 79459 55460 17081 18268 39530 97130 39746 41721  
00308 82925 00043 08702 07150 98989 00451 65382 34737 12828  
24075 30182 64693 55206 12904 28846 79730 84574 58678 92513  
72719 26199 67287 23453 94144 03181 82638 58172 86375 01568  
80938 82567 78195 36728 71325 78823 38012 13181 63778 08725  
09208 95077 90254 63095 76048 29507 89990 32029 33603 89829  
94889 75606 60094 31206 75955 99802 15143 75534 36694 67234  
12312 67959 64424 97484 39420 72154 75440 36641 25037 96562  
14953 56151 00000

11166 70202 95623 04057 01739

26425 06538 39469 93924 79971 27899 25251 71906 86233 95955  
24167 34162 08454 24554 68611 33465 39475 97805 53622 92431  
04565 77960 45022 88013 02621 05188 47048 33354 34192 31427  
40375 11690 89755 55520 26498 41996 96678 51784 39395 81052  
48320 09250 10414 91632 63687 23711 97321 31480 51104 09813  
13441 42781 74318 25328 17838 46817 44486 24846 52471 73467  
86476 85028 37252 80277 52926 68646 58956 40752 84489 19568  
14922 06588 39712 05887 97459 73504 42975 53396 29940 05390  
23945 36569 90460 96423 46956 19249 84061 75884 53785 62240  
49408 85314 68229 39976 10883 82736 35946 33455 12029 53610  
97982 91636 91272 33216 21432 78481 85877 70145 35661 47825  
75050 85601 47535 13267 98146 08180 34088 05267 08916 88827  
36072 32643 51715 25670 00825 90644 70632 53381 47883 82793  
87459 76797 55796 48692 09452 53454 93565 14962 52803 54737  
45151 11528 92794 60336 00477 20411 76524 65683 11385 49238  
59185 07069 35965 46636 49810 34121 19701 01717 77424 84338  
86869 94824 13558 39354 40634 91747 12024 67631 95261 98567  
51936 57171 00000

**11048/9244/7319 kHz, 06-02, 0700/0710/0720 UTC**

11166 70202 85471 06011 00049 00000 00000 00000 00000

**11048/9244/7319 kHz, 09-02, 0700/0715/0730 UTC**

File 44458 (binary contents)

**11164/9164/7617 kHz, 09-02, 1200/1215/1230 UTC**

File 44458 (binary contents)

**11048/9244/7319 kHz, 10-02, 0700/0710/0720 UTC**

**11164/9164/7617 kHz, 10-02, 1200/1210/1220 UTC**

11166 70202 31528 09059 01459

41264 97070 74502 84348 25451 07545 11983 84310 23130 60570  
76720 88359 56799 54153 61349 47727 97931 97202 43112 87074  
37092 53839 74133 99625 78359 09285 79613 81852 31513 24515  
99853 87399 00401 71874 37087 04938 90945 68838 93013 89624  
87208 52098 08006 02869 68964 59176 37909 40083 69215 09741  
29377 51114 95079 03816 79680 83035 60503 79078 91926 99983  
04224 94421 61621 59747 91420 31971 55526 51767 22501 34752  
68727 26261 97448 22189 70874 69138 09176 50616 77507 02417  
64318 11007 07427 14801 54912 81086 12033 52131 29379 74035  
87573 22386 36272 50958 06245 94914 39213 89308 27071 98603  
26453 24463 72509 48650 63506 06621 81719 56640 62282 40228  
76421 03615 65163 98107 00296 80806 67457 27485 17858 27750  
26673 90090 83730 22434 32041 03537 18284 03192 32731 76153  
50538 27026 48199 52461 14310 94036 09100 11485 08499 92656  
02199 85078 57490 59143 00000

11166 70202 48375 09060 01719

22628 05255 70277 52599 64142 15998 43250 30839 07690 22724  
58067 92010 54717 92511 24314 29998 79500 96036 66829 01301  
01040 85790 10544 17950 91375 56423 75954 93641 50023 35660  
27438 54036 99201 79210 41575 47151 79563 68134 87688 14791  
51083 32068 37773 10950 28821 46783 48009 78123 08239 79494  
79041 17467 59740 80349 47224 13744 97154 43565 23997 00992  
49821 86612 25605 79847 92979 20921 60336 22478 16147 12511  
25458 26038 34173 56013 71055 00604 70655 10504 72952 02516  
68407 70592 81900 49071 06663 71195 41217 75499 29710 49452  
90085 20162 16635 12195 94669 48911 46868 82424 74254 54545  
41215 23236 14601 92302 83072 62614 85684 37326 49494 67548  
06019 75037 06820 40901 20754 60358 50535 39468 85725 06719  
94058 36672 74650 90790 36145 78310 51658 83871 61587 04822  
76334 45879 54902 38482 33476 42869 31704 58989 04744 74035  
17425 15854 24391 19114 28104 51052 86263 42136 32899 30371  
94259 12469 03031 06871 73430 29075 76846 64929 83914 58935  
95670 18277 04894 25569 90155 60483 80751 08584 21803 60169  
00000

**11048/9244/7319 kHz, 11-02, 0700/0715/0730 UTC** File 44461 (binary contents)  
**11164/9164/7617 kHz, 11-02, 1200/1215/1230 UTC** File 44461 (binary contents)

**11048/9244/7319 kHz, 12-02, 0700/0710/0720 UTC**  
**11164/9164/7617 kHz, 12-02, 1200/1210/1220 UTC**

11166 70202 04587 11062 01739  
15674 79697 82186 53769 68823 62053 04245 51693 77753 09006  
79327 72735 31319 19687 52378 63072 42708 46542 93123 83816  
54860 66153 68920 68992 99099 16169 48165 36343 17931 53040  
07715 18163 87936 10238 42735 04331 03705 61654 02445 14744  
08731 19862 00166 43324 84231 23921 71127 40807 31801 96436  
76465 28476 10862 74527 76851 60047 16827 44417 24181 73885  
10931 34325 44775 02740 37655 45340 12516 33184 90685 24978  
35364 31957 13352 13095 03695 81374 44465 14859 73884 91024  
45511 80451 85587 77909 70128 96201 36147 32235 61805 16830  
60567 11035 90738 93494 90496 26809 65792 77325 90637 23373  
82488 03133 96056 56102 92971 82981 98789 18757 08883 64315  
57219 84072 73083 32315 26628 50317 61164 61192 34390 10985  
98670 44087 48231 89821 04998 56268 10979 08377 99876 31327  
40272 78254 33398 55042 16639 35266 25507 06609 08388 57657  
25910 01915 06765 35614 30327 18568 69790 84214 14035 07331  
98231 17035 68621 19683 92138 22586 52915 06180 61385 10760  
93997 65294 88653 21497 99261 47444 68290 12842 65438 43875  
69488 62171 00000

11166 70202 65813 11063 01579  
41580 37219 27539 83237 24635 83180 43886 63206 43290 08716  
23766 78222 69393 59070 98459 84949 62592 89196 01300 17904  
09709 79374 39521 17433 08354 72022 72059 87470 99458 53132  
10500 69018 78436 26781 85351 40283 39622 56135 44848 79419  
33722 69404 78449 50800 42926 54171 82246 00763 03386 88534  
08435 73762 29747 82515 66072 84882 21417 28143 65280 09617  
55256 81677 22102 76884 94392 26397 66184 76201 67821 89386  
18481 14947 00506 10774 31163 86671 98649 88837 06927 36373  
19832 49434 39879 33683 82693 13183 45195 89900 95858 58835  
69732 79815 10793 06276 00788 54251 28256 67596 15192 54261  
13077 39659 35916 62939 96898 36620 88388 55746 73611 85810  
73709 35325 17142 35457 00942 61715 76297 47634 45677 13920  
26346 74924 27054 43759 82020 44201 20422 07940 01645 95972  
47840 89294 37046 52743 13595 43111 08974 14801 76919 29496  
12673 06896 79113 17723 83341 24227 67245 73473 76125 51188  
81617 64937 40355 51303 99196 63155 00000

**11048/9244/7319 kHz, 13-02, 0700/0710/0720 UTC**  
11166 70202 94352 13013 00049 00000 00000 00000 00000

**11048/9244/7319 kHz, 16-02, 0700/0715/0730 UTC** File 44464 (binary contents)  
**11164/9164/7617 kHz, 16-02, 1200/1215/1230 UTC** File 44464 (binary contents)

**11048/9244/7319 kHz, 17-02, 0700/0710/0720 UTC**  
**11164/9164/7617 kHz, 17-02, 1200/1210/1220 UTC**

11166 70202 35791 16065 01699  
08018 11365 60791 25798 37293 37557 30182 61666 45098 38336  
40023 26442 76033 74286 56103 38404 43144 93897 12261 98641  
86426 44891 60736 11610 19337 25476 22250 04211 67966 98997  
52953 29355 32585 20394 70479 64929 26234 47907 06256 44111  
70054 38492 76268 77972 50044 50342 87485 56304 64932 00994  
22099 37596 19844 54430 66790 64122 45461 35623 79206 63058  
47359 95957 08828 19568 15203 77970 14414 32805 46496 52849  
45228 90760 64568 29112 78213 24896 35488 55922 28310 30496  
13588 69474 74111 63687 70293 55870 66035 51048 85936 28954  
09206 72760 09247 46508 38224 05226 14207 13283 26027 34100

08955 44265 94012 73672 76430 86648 15622 53526 51442 23926  
30566 58427 63853 10556 11889 32372 02559 10624 53040 82727  
79960 38950 67166 45414 01617 28080 15790 97058 70747 69580  
09069 25054 82299 03100 44832 91467 86243 51617 78567 51743  
24802 26314 41556 14111 73285 49521 49334 50669 39234 69166  
67683 96059 99542 63160 28320 94679 80266 57163 11482 82359  
08788 04174 37597 13465 93031 99360 35223 65167 00000

11166 70202 86427 16066 01939  
35555 00553 58680 72283 66363 48376 47867 74323 85926 37036  
65600 36218 66899 26262 67820 99157 97733 45793 15604 05422  
49278 22109 77555 54061 71936 57988 96352 77381 96835 32086  
55388 17911 39432 10724 06452 10553 28997 89065 44383 99591  
12422 03881 39630 45258 05771 85078 64663 99523 92031 38196  
75168 55833 88489 75031 31965 02436 32174 34607 74581 34029  
56802 61660 82437 01386 59669 34831 84545 03657 81916 61749  
03703 53039 50612 83204 46079 66489 56092 53584 72159 64187  
62987 89768 09972 79407 78380 05670 96534 09524 25536 74603  
58465 62799 96620 86684 67691 80669 82877 93418 33184 40207  
05676 56698 14682 66439 96872 44381 69309 09228 01933 39628  
67053 64374 04241 56210 36016 43663 94037 76950 23401 23509  
30429 57506 83148 26912 69891 62663 26176 18396 59727 27342  
94150 16625 19892 59496 42736 54381 61639 27095 45246 40599  
16425 96371 52652 04127 73494 13534 70868 23928 49607 47114  
41264 75383 39320 33156 35337 47400 19279 90414 99482 10013  
04953 97772 10795 37147 83243 51039 29847 14265 69412 41344  
61379 85541 61763 22289 58828 20298 92514 58066 33656 03346  
98300 69713 55384 78952 58740 21707 53301 03110 76508 16070  
55762 66191 00000

**11048/9244/7319 kHz, 18-02, 0700/0715/0730 UTC** File 44467 (binary contents)  
**11164/9164/7617 kHz, 18-02, 1200/1215/1230 UTC** File 44467 (binary contents)

**11048/9244/7319 kHz, 19-02, 0700/0710/0720 UTC**  
**11164/9164/7617 kHz, 19-02, 1200/1210/1220 UTC**  
11166 70202 41835 18068 01759  
29781 05341 14470 03220 19732 77388 22396 62447 19638 24556  
40482 84340 87489 61098 36465 64878 64675 76446 44968 89552  
15545 51798 44227 85754 33094 07285 85654 39327 65448 53135  
43415 11202 42831 43281 76210 15084 09717 54847 18462 42099  
91835 41950 43074 43362 52736 37256 62963 06382 19589 99728  
63549 86256 82905 32006 83386 77596 99882 15844 85132 38095  
56037 39059 84030 99707 64837 12427 26105 28364 10005 99935  
33242 18149 60181 10884 57365 30896 10645 27208 10870 17131  
31768 64513 65517 79293 28899 90238 36979 63193 43354 47371  
97204 88610 49217 57179 81814 55011 25621 99385 84697 83282  
09207 93208 57006 79450 56449 27731 52727 31305 70527 15022  
88032 73871 72440 64440 06575 84665 21041 01580 67934 94680  
11691 80272 01403 26020 08210 61096 92272 92140 87816 54830  
92846 21624 03747 54280 75337 91422 95227 02929 68845 80515  
99511 73831 47614 79911 45646 57211 62732 19939 34661 80178  
34491 00757 35885 07016 47566 37028 54046 93472 16222 52684  
46871 93494 11721 86736 97859 41832 69132 96044 73915 60976  
15718 66014 22537 68173 00000

11166 70202 10846 18069 02039  
66616 17896 90579 57606 46756 67402 94152 15749 39135 39083  
08819 07023 68324 64664 12526 92727 73613 79525 51865 29326  
29871 95783 51265 33186 65000 58296 36747 18070 41153 19507  
53905 03825 91913 94079 84823 19693 32612 79252 93601 50696  
85983 51856 55179 00516 90335 77921 47155 69321 82433 95831  
09273 69977 72268 58944 00282 31059 51919 48618 06835 60132  
05673 93592 84138 65719 13611 56657 33018 61391 65837 74530

43098 00433 29534 61910 56792 14510 36044 15618 33769 54770  
80152 79777 20600 58836 48772 57967 55272 92104 21203 83284  
61246 36802 08164 82250 10761 27233 21784 93509 62053 54659  
93733 27247 00199 90240 83691 76264 36254 99480 45328 14656  
44379 46619 42002 45021 41645 12396 29340 80146 40199 73634  
46912 70096 26484 18085 86165 10661 47188 92943 26821 94076  
06635 10522 58916 87976 05272 59461 32671 53500 73969 94967  
03383 38501 83804 06477 63527 06787 36018 86208 79243 89334  
61838 47023 73418 68417 86859 63050 22525 30572 39647 31492  
59423 49361 09279 79064 99311 83854 81498 61502 31001 03762  
08162 29571 40713 77179 89681 60016 60584 81857 75141 74891  
59066 25952 09777 97707 15409 89170 84500 19833 45404 20290  
67178 75580 70603 51930 20317 49433 48161 18580 34873 63830  
03525 69201 00000

**20-02, 0700 UTC. No reception possible due to radar interference**

**20-02, 0710, 0720 UTC. Not monitored**

**11048/9244/7319 kHz, 23-02, 0700/0715/0730 UTC** File 44470 (binary contents)

**11164/9164/7617 kHz, 23-02, 1200/1215/1230 UTC** File 44470 (binary contents)

**11048/9244/7319 kHz, 24-02, 0700/0710/0720 UTC**

**11164/9164/7617 kHz, 24-02, 1200/1210/1220 UTC**

11166 70202 62517 20071 01139  
63586 67685 88528 13959 69461 25187 02117 39542 21823 90383  
50814 25398 06987 15827 77233 58878 08167 24887 09724 14227  
34057 23416 64443 81676 58063 64638 13536 27110 10355 78193  
74122 55725 89949 99281 97765 78145 88997 58842 65119 02403  
46462 20709 15439 00241 73380 76668 65645 21171 16899 35373  
98617 52722 55258 66033 25427 50314 40931 82836 51169 85206  
34082 81027 99106 83936 93560 60578 72794 57717 17586 98405  
60886 45198 51337 55049 14298 17052 03622 26765 50428 15811  
39813 78972 64112 29398 43245 21974 50004 21781 62256 14907  
66072 69201 85054 08852 92892 75398 09614 65041 68437 64282  
00772 09100 03028 73481 51720 07258 04165 97206 92082 75479  
65897 71111 00000

11166 70202 63875 20072 02339  
48776 06687 34587 78467 07861 70330 12964 66339 03232 07629  
03517 48704 09450 42621 57683 13880 98742 64657 38192 30464  
63882 61489 78308 12321 86848 81374 86102 08656 32993 22625  
85919 80140 75370 74029 14250 46998 78939 54589 12180 20003  
99308 26020 81610 50331 75725 76426 97430 59188 22989 98628  
92843 33169 51975 11533 60017 96269 73464 98020 33257 94504  
64957 57773 46884 54048 05164 98478 85013 98863 05858 13849  
65404 38727 95784 21900 24593 63611 36303 61914 96468 05345  
73450 73539 01505 52503 56132 06446 88819 29453 75099 33996  
98248 75496 02424 69354 34639 85048 36141 07464 71523 94795  
79766 41359 26385 28750 11351 26215 74688 37165 21784 89599  
94872 90228 27019 11348 61478 12480 83907 21506 28618 68890  
64347 89777 70958 38533 67399 04914 74415 36801 74101 67477  
93738 72085 74627 44431 19181 47871 22508 58972 19435 46176  
95585 14060 53032 53280 68398 73079 65378 13673 25672 46058  
13630 23161 71616 54902 86578 97079 14709 76059 11758 74527  
32656 84072 66930 44589 47215 44440 38165 05454 63569 29240  
91680 92389 53935 53936 51646 35503 90107 58818 01133 33217  
54606 83508 48383 52411 85126 07972 25614 91161 31984 58465  
12523 65013 33227 01867 01682 02724 37118 76823 48022 62422  
26661 35152 69586 04114 25873 91929 91729 79462 92475 07712  
51980 24812 26703 51324 07719 68346 50910 16651 13884 87370  
39672 91863 62880 76604 05052 04539 03889 13469 66735 91079  
83751 72231 00000



11048/9244/7319 kHz, 25-02, 0700/0715/0730 UTC

11164/9164/7617 kHz, 25-02, 1200/1215/1230 UTC

File 44473 (binary contents)

File 44473 (binary contents)

11048/9244/7319 kHz, 26-02, 0700/0710/0720 UTC

11164/9164/7617 kHz, 26-02, 1200/1210/1220 UTC

11166 70202 32587 25074 01819

98176 22989 91623 11418 87164 43157 01331 67861 26784 17620

02260 49454 88937 46494 72995 14143 63422 54127 87100 63896

05871 22560 49195 68852 77196 82514 18627 29442 72986 54086

81686 81193 66265 54329 58287 71897 12082 13925 54064 65828

87341 70123 93808 54695 64344 28134 97197 80028 41432 08168

82745 96669 79220 20309 10907 32072 15826 34407 02290 21081

59532 37174 91891 20894 82341 93676 05321 35886 62841 55413

67915 06981 51818 82157 82715 45265 59072 69760 38228 14524

84854 01094 31898 92394 44374 62332 20253 64814 58806 91747

31644 33467 11243 53216 02513 40892 91023 51615 23142 42970

74881 32306 03809 83446 18344 31884 97290 50205 55824 72385

38652 17960 32840 16144 88256 07063 18801 23469 88941 13112

73801 80352 73280 87047 67852 88381 81896 70425 75988 34041

78729 15550 97700 79600 74233 45163 74115 42775 92402 31367

01366 57337 42597 98476 63596 31872 82083 79482 34030 48874

80239 80810 17538 71353 20352 35083 33157 49153 99951 46541

59980 42162 15627 58837 94862 02608 43239 99881 95388 83620

49485 83417 06524 66252 95755 72030 94398 22142 20203 74179

00000

11166 70202 19643 25075 02199

67920 78851 48896 48749 84573 13500 67238 06875 11860 56171

26554 06988 98760 65620 64839 35144 30905 21726 15146 99933

42915 30971 51763 57156 10540 30891 38729 60783 03089 80710

64944 47484 57904 13170 08452 85444 76608 14262 93069 31728

42235 63456 82374 87205 31708 27975 18311 67460 88077 30442

98598 94813 66297 29193 47454 60860 77641 70783 11356 89223

74119 28511 22830 50416 33500 84991 46491 39006 41815 82071

98834 84493 52427 92650 95500 98574 20049 12184 64002 30716

91301 70934 61147 40218 35687 41251 16645 44163 08073 26439

64625 59958 41053 19006 83055 92366 35795 29333 86296 07204

41233 58072 97268 11137 31713 93814 65979 86231 40453 51822

20385 28193 55423 01880 53815 93466 59511 18556 14468 31603

05080 89415 06681 09588 99276 18995 67986 82040 09689 72583

35172 43441 47249 95083 66832 84853 53437 29541 08152 23755

37188 91100 17897 02947 76101 28455 91855 40687 67789 95090

25207 27475 99516 04841 55559 40170 53438 52604 11629 92346

09101 98204 20816 63073 42019 12749 91133 44539 04457 26001

49249 39177 76788 40558 94614 56239 73012 15914 05907 28963

98310 72663 40287 00780 30745 78429 47187 16211 20456 10286

61632 56396 07965 53738 73315 47409 23460 88545 73914 87793

80148 70945 26393 30983 28050 70067 06255 54532 68846 89752

17000 00000

11048/9244/7319 kHz, 27-02, 0700/0710/0720 UTC

11166 70202 45781 27091 00049 00000 00000 00000 00000

Link 80214

19237/14979/12205 kHz, 05-02, 11330/1340/350 UTC

11166 80214 26598 05005 00049 00000 00000 00000 00000

19237/14979/12205 kHz, 12-02, 11330/1340/350 UTC

11166 80214 69257 12087 00049 00000 00000 00000 00000

19237/14979/12205 kHz, 19-02, 11330/1340/350 UTC

11166 80214 53482 19051 00049 00000 00000 00000 00000

19237/14979/12205 kHz, 26-02, 11330/1340/350 UTC  
11166 80214 18349 26012 00049 00000 00000 00000 00000

## F06a

|                                                  |                              |
|--------------------------------------------------|------------------------------|
| 17429/14421/13373 kHz, 01-02, 1600/1615/1630 UTC | File 44438 (binary contents) |
| 24572/22875/19661 kHz, 14-02, 1600/1615/1630 UTC | File 44239 (binary contents) |
| 20757/17445/16323 kHz, 15-02, 1600/1615/1630 UTC | File 44239 (binary contents) |
| 24572/22875/19661 kHz, 21-02, 1600/1615/1630 UTC | File 44440 (binary contents) |
| 20757/17445/16323 kHz, 22-02, 1600/1615/1630 UTC | File 44440 (binary contents) |
| 24572/22875/19661 kHz, 28-02, 1600/1615/1630 UTC | File 45441 (binary contents) |
| 20757/17445/16323 kHz, 01-03, 1600/1615/1630 UTC | File 45441 (binary contents) |

|                                                        |                              |
|--------------------------------------------------------|------------------------------|
| 13997/15627/17529 kHz, 04-02/05-02, 0600/0615/0630 UTC | File 44280 (binary contents) |
| 13997/15627/17529 kHz, 11-02/12-02, 0600/0615/0630 UTC | File 14481 (binary contents) |
| 13997/15627/17529 kHz, 18-02/19-02, 0600/0615/0630 UTC | File 46482 (binary contents) |
| 13997/15627/17529 kHz, 25-02/26-02, 0600/0615/0630 UTC | File 44783 (binary contents) |

|                                                  |                              |
|--------------------------------------------------|------------------------------|
| 14373/12223/11156 kHz, 18-02, 1400/1415/1430 UTC | File 54402 (binary contents) |
|--------------------------------------------------|------------------------------|

|                                                  |                              |
|--------------------------------------------------|------------------------------|
| 6844/5375/4487 kHz, 27-02, 2000/2015/2030 UTC    | File 40451 (binary contents) |
| 12154/11063/10218 kHz, 28-02, 0700/0715/0730 UTC | File 40451 (binary contents) |

|                                                |                        |
|------------------------------------------------|------------------------|
| 5913/7992/10687 kHz, 22-02, 0850/0900/0910 UTC | Text file _KI79993.001 |
|------------------------------------------------|------------------------|

I couldn't get a full decode, in particular some headers were corrupted; but by examining the corrupted data, I was able to reconstruct tentative headers (PY)

F06a file named \_KI79993.001 (tentative filename, 1861 bytes)

11100 79993 \_3423 22001 03019 (tentative header)  
25060 36631 34837 46783 31915 13699 73876 09215 73891 40936  
38136 77420 82181 82282 62233 74080 93121 09049 25837 88132  
79388 99637 71037 55395 21920 42885 37792 29543 33487 99700  
90873 10584 69876 02692 36758 23057 89592 98471 53890 61116  
48049 62321 84767 42700 37159 39910 63281 39968 06275 95751  
75741 78199 25416 73084 79037 20329 76717 94865 24361 7932\_  
\_\_\_\_ \_9934 25568 23679 18469 11181 81467 56095 18096  
61774 20440 99646 72566 83999 12489 22200 85449 91879 83549  
07608 21885 15475 80791 50966 28617 19835 61062 69594 32648  
16991 44666 40675 73186 44478 01663 01494 46594 08777 62870  
73209 68995 17146 72767 94101 86258 46270 26471 73229 86028  
21160 57987 00428 91489 02741 71922 73604 41567 07576 35834  
29248 87225 08152 75412 87096 58586 87169 39686 44911 82516  
44279 28436 84280 55405 78684 98996 73394 00799 96078 94643  
77734 66585 13319 61755 14606 41419 59304 47919 12461 95074  
95472 98197 60939 72405 04373 91715 62573 95612 19735 85769  
22083 54494 96483 59646 34219 89374 44132 75335 56066 96398  
71985 97318 74765 09871 19613 38639 06575 41338 70991 25417  
88224 80095 75796 97016 46494 84806 26248 84042 56937 20924  
62962 31355 27723 23599 08252 58296 \_\_\_\_\_ 2 73304  
37224 36083 26617 85117 54936 56450 80361 77739 59329 93724  
87693 41369 23151 95395 79884 76469 44296 03859 08433 13172  
11583 28990 26703 13198 83107 83714 86502 46491 38149 87245  
73031 59738 88533 65689 26660 78975 60420 04699 24947 13468  
82429 33870 23364 53037 41053 47556 78133 76044 89295 91806  
99644 10195 19466 72094 09871 13367 36078 61539 02221 66652  
89772 14308 27280 96781 58225 13868 52862 70139 84957 10807  
71815 25547 11995 29876 56016 37998 67312 50968 80004 30546  
93003 93705 62666 76515 25107 6 \_\_\_\_\_ 61034 16582  
90451 81510 75526 \_\_\_\_\_ 038 20171

|            |
|------------|
| <b>F07</b> |
|------------|

8152 kHz, 03-02/05-02/10-02/12-02/17-02/19-02/24-02/26-02, 2100 UTC  
7934 kHz, 03-02/05-02/10-02/12-02/17-02/19-02/24-02/26-02, 2110 UTC  
7694 kHz, 03-02/05-02/10-02/12-02/17-02/19-02/24-02/26-02, 2120 UTC  
7454 kHz, 03-02/05-02/10-02/12-02/17-02/19-02/24-02/26-02, 2130 UTC  
6877 kHz, 03-02/05-02/10-02/12-02/17-02/19-02/24-02/26-02, 2140 UTC  
5437 kHz, 03-02/05-02/10-02/12-02/17-02/19-02/24-02/26-02, 2150 UTC

**HM01 - Dirección General de Inteligencia**

11760 kHz, 22-02, ca 0200 UTC: Radio Havana Cuba frequency. HM01 for a few moments. Was it an error or an attempt to return?

Thanks to Chris (CM2) for the report.

**M42**

18726 kHz, 12-02, 1300 UTC, FSK 75/500. Deep fading during the message  
UAG: Russian embassy havana wkg UAL: MFA Moscow.

UAG UAG UAG followed by opchat and a message

[illegible]

53447 45218 73505 06161 70864 53192 42331 17623 77653 98504  
45533 15945 76420 06162 43071 50600 37948 22150 00214 99575  
85351 02939 78774 44269 62308 25383 30386 54635 52556

**16156 kHz, 12-02, 1300 UTC, FSK 75/500.**

**UAL: MFA Moscow wkg UAG: Russian embassy Havana.**

UAL UAL UAL followed by opchat and a message

11100 70103 75386 12021 04009  
49046 49473 44145 96515 60080 44797 19465 56352 24203 33750  
24209 71284 11446 15602 75213 02897 91820 25824 51952 34188  
83423 45405 86895 40074 98699 00901 09467 25956 31030 66130  
98311 07790 48846 01480 21549 32101 89441 91738 69699 59379  
69688 68406 10977 59283 55826 27410 23632 91105 59531 78174  
85031 67927 52432 84969 22166 27900 16275 86485 53270 61094  
70922 04568 75240 65354 47367 78049 76548 29593 97960 82613  
80323 67962 61023 22641 47298 53349 22049 05951 93313 23613  
38677 37406 01048 59026 21613 92288 30686 54333 88702 55412  
59193 33886 34335 36881 02893 83275 81365 00457 03029 95910  
07744 65456 79008 57969 65040 68121 79010 20170 31050 93399  
82632 29802 63669 13075 35290 21435 48229 91178 19034 89770  
55471 42629 88481 93048 52360 56025 33552 60468 32907 16543  
27685 02041 61211 89864 01243 44328 43887 53078 34763 40495  
74075 83495 47780 28117 14231 41304 55863 33171 09856 07019  
01603 43674 51384 59648 89189 01365 26402 06521 77312 84906  
29374 00710 10028 83027 21095 06997 90300 07211 55020 02304  
26020 09137 12687 21536 02756 26064 15401 84774 63682 36311  
04382 66749 00596 64565 06557 94543 86187 35675 28176 84448  
02082 33631 43458 53921 42379 37980 70439 69576 97358 61133  
51212 17153 47053 34969 78756 04387 19375 20215 37526 32733  
92474 36995 50008 98873 46032 40031 46414 11951 91154 86888  
99710 37453 33582 72741 93165 03704 49873 30071 12601 31887  
81275 16750 80546 75543 74952 40930 74468 80471 27263 96200  
96268 00987 08781 05427 85247 33458 75739 96718 91698 53069  
97585 59970 53349 64739 55343 57401 41813 04147 90455 86533  
71248 49777 08809 19061 86417 31954 69617 64017 72320 49778  
13860 28717 52604 31907 11955 85869 68925 02131 35360 00339  
58460 35659 81786 73953 71743 17079 08713 31837 98031 35903  
54887 98664 90365 80654 54507 78307 07536 17429 73759 55294  
15124 63857 24417 81519 12818 94427 34162 46652 80179 38082  
78350 55663 58064 54044 02877 61930 07861 96801 92847 29338  
15765 06186 66738 21822 34246 83493 00730 43794 77921 39572  
12905 79884 16000 25822 61997 07431 28509 84042 40379 80164  
18462 76066 65975 06530 97188 79112 02787 71057 84980 57801  
64717 72254 94266 48773 82394 75427 87496 18827 37652 03889  
26907 82551 95389 16976 58384 90346 87477 48330 96588 22811  
28398 02860 03536 52399 67315 35834 77822 58310 06259 62551  
96691 05536 39106 71999 78106 24003 91051 42965 55036 48753  
63258 86018 79139 07096 12365 59818 96024 63670 19547

490

**18726 kHz, 19-02, 1300 UTC, FSK 75/500**

UAG: Russian embassy Havana not monitored

**16156 kHz, 19-02, 1300 UTC, FSK 75/500. UAL: MFA Moscow wkg UAG: Russian embassy Havana.**

UAL UAL UAL followed by opchat and a message

11100 70103 82467 19026 04009  
27273 02238 50866 93314 78587 77543 97508 59430 85286 49750  
42642 58230 08149 24301 96171 27705 54390 98569 26485 92376  
34584 40248 21133 10486 17347 54500 91367 40414 80208 32080  
81459 31037 80116 95588 68745 65683 92002 86064 65326 14407



97172 98946 00497 72039 75784 85068 11148 99238 50168 92184  
39036 81756 85858 24709 64893 91585 59493 24208 63425 11602  
07199 55065 50373 64629 38687 18757 72646 57852 28029 51431  
14960 09731 17014 84469 21402 51631 92047 72728 55399 21356  
20524 20147 46479 90741 57606 57397 97299 94540 59354 51282  
49366 52753 63141 50551 30876 03601 21287 97833 35127 89339  
98854 62373 02940 62087 71549 73246 07509 01861 84640 57764  
65143 64005 58871 14727 20317 98205 54265 77240 78472 06270  
27790 44764 85025 30869 45800 89085 73985 92418 37205 63908  
34651 16295 98297 72744 69807 17572 85180 74788 43864 35460  
54724 33474 44373 34645 40003 37388 05362 15708 71136 48241  
65919 01809 77483 55571 62478 93836 32114 42873 78223 11198  
24514 94850 98060 60436 72438 00453 42600 98876 08872 31416  
79575 85472 05020 00969 36142 36046 15274 32406 60487 25121  
55082 92213 06209 01507 47679 67429 37867 09858 00588 91931  
81176 35367 97850 51341 66262 13793 18921 21220 37420 74008  
20150 18265 27816 05255 39813 69172 22566 66292 12601 26867  
58632 78630 04528 88782 34975 71025 04188 96879 31392 67445  
31287 24090 59491 35665 48414 76873 94224 38705 86951

[illegible]

**17475 kHz, 03-02, 0851 UTC, FSK 50/500**  
Russian Gov PtP station RTK2 121742 working remote station RGY2 380741 on 11470 kHz

## P07

10251 kHz, 01-02/04-02/08-02/11-02/15-02/18-02/22-02/25-02, 1500 UTC  
9333 kHz, 01-02/04-02/08-02/11-02/15-02/18-02/22-02/25-02, 1510 UTC  
9074 kHz, 01-02/04-02/08-02/11-02/15-02/18-02/22-02/25-02, 1520 UTC  
8128 kHz, 01-02/04-02/08-02/11-02/15-02/18-02/22-02/25-02, 1530 UTC  
7691 kHz, 01-02/04-02/08-02/11-02/15-02/18-02/22-02/25-02, 1540 UTC  
7458 kHz, 01-02/04-02/08-02/11-02/15-02/18-02/22-02/25-02, 1550 UTC

## Q26 - Chinese military

### 3605,75 kHz, 05-02, 1800 UTC

FFF 1PNA 1PNA 1PNA MSG NR5915 NR8384 NR9269 NR1434  
FFF 1PNA 1PNA 1PNA MSG NR5915 NR8384 NR9269 NR1434

MSG NR5915 1917

4357 9578 0358 5843 6731 6106 4448 4347 3344 1568  
8554 4824 4345 4684 1568 3334 4194 1644 1568 8374  
4354 6085 1438 9400 4314 4345 1684 1708 8844 4834  
3414 4174 4247 8372 5701 4441 9703 9132 4085 7718  
4150 1684 1673 1684 4474 4181 0257 4415 4340 3444  
4346 4944 7350 7623 4444 2839 4610 4415 4434 4484  
4484 4474 7354

MSG NR8384 1904

4357 9578 0358 8349 4835 6106 4448 4347 3384 2191  
4664 4744 4345 1784 2191 1004 4854 1944 2191 1704  
4324 5940 4358 6477 4167 4345 1944 8213 3414 4164  
9800 4375 6477 4691 1944 8213 3754 4154 3733 4085  
9830 1141 1944 8913 4444 4124 4522 7448 1412 4300  
4314 1944 1708 8144 4364 1274 4174 4247 3009 0550  
7471 0034 4444 7867 4136 4345 1944 7977 4094 4154  
3314 4404 9810 4441 5186 2871 4415 4346 4944 4346  
3444 9107 8390 4444 0897 2015 4415 4414 4344 4484  
4474 6058

MSG NR9269 CK41 51 0204 1905

1213 0030 2770 9704 5694 7061 3277 6943 1836 3661  
7075 5889 2027 9737 3191 4265 2482 2030 1500 9326  
9638 3904 4725 8638 2149 2101 4163 8643 8712 5274  
0752 9000 0868 5955 8978 5300 2993 4935 1034 4957  
6159

MSG NR1434 CK42 51 0204 1902

1213 0030 0570 0820 1683 2575 4231 3025 3405 1076  
8038 3309 3603 2921 2490 0215 3653 7833 8137 1358  
9756 2900 8587 1922 6952 1707 5621 9381 1797 5021  
2202 6357 3805 1060 3586 8421 7967 2211 9738 7246  
8603 9050

AGN (all messages repeated)

ZNN SK

FFF 1PNA 1PNA 1PNA MSG NR5915 NR8384 NR9269 NR1434  
FFF 1PNA 1PNA 1PNA MSG NR5915 NR8384 NR9269 NR1434  
FFF 1PNA 1PNA 1PNA MSG NR5915 NR8384 NR9269 NR1434

(All of the above messages were repeated twice again)

ZNN SK

**9042 kHz, 06-02, 2338 UTC**

DDDD22221111 DDDD22221111 DDDD22221111 DDDD22221111 DDDD22221111 DDDD22221111 DDDD22221111  
DDDD22221111 DDDD22221111 DDDD22221111 (#  
DDDD22221111 DDDD22221111 DDDD22221111 DDDD22221111 DDDD22221111 DDDD22221111 DDDD22221111  
DDDD22221111 DDDD22221111 DDDD22221111 \*7  
DDDD22221111 DDDD22221111 DDDD22221111 DDDD22221111 DDDD22221111 DDDD22221111 DDDD22221111  
DDDD22221111 DDDD22221111 DDDD22221111 14  
DDDD22221111 DDDD22221111 DDDD22221111 DDDD22221111 DDDD22221111 DDDD22221111 DDDD22221111  
DDDD22221111 DDDD22221111 DDDD22221111 \*1.

**3605.75 kHz, 06-02, 1800 UTC**

FFF 1PNA 1PNA 1PNA MSG NR0385 NR7894 NR8384 NR9269 NR1434  
FFF 1PNA 1PNA 1PNA MSG NR0385 NR7894 NR8384 NR9269 NR1434  
FFF 1PNA 1PNA 1PNA MSG NR0385 NR7894 NR8384 NR9269 NR1434

**MSG NR0385 1835**

3462 9453 5468 1891 3306 3439 3333 3437 3333 0072  
9389 0132 3306 3383 3323 3363 3353 9375 0272 9116  
0355 1086 3338 3435 3983 7090 0203 3623 0433 7090  
0883 3653 0133 7090 0823 3733 7175 5665 4530 0016  
3333 6793 3045 0133 7374 0023 3293 4313 3083 5186  
3586 8167 0030 0133 8904 3813 3053 3677 6130 3048  
1173 3190 0133 8900 3253 3313 1847 3421 0582 6635  
3403 0233 2570 3153 3263 1847 0306 2627 2632 3790  
0133 7400 0373 3053 3803 3003 6541 2963 1674 5926  
3426 6117 3006 0133 2100 3663 3843 0102 7811 3942

**MSG NR7894 1810**

3462 9628 5468 7795 3306 3431 3933 3439 4333 5279  
3306 3383 3323 3323 3363 9900 1640 8910 3333 3435  
0233 0518 3753 3653 0133 0518 3953 3223 4244 3586  
9521 3065 0133 0124 4803 3373 3080 5926 0306 4190  
3077 3790 0133 7400 0373 3053 3803 3003 1936 1760  
4203 3641 3638 3181 9965 3403 0233 2570 3153 3263  
4033 7440

**MSG NR8384 1904**

4357 9578 0358 8349 4835 6106 4448 4347 3384 2191  
4664 4744 4345 1784 2191 1004 4854 1944 2191 1704  
4324 5940 4358 6477 4167 4345 1944 8213 3414 4164  
9800 4375 6477 4691 1944 8213 3754 4154 3733 4085  
9830 1141 1944 8913 4444 4124 4522 7448 1412 4300  
4314 1944 1708 8144 4364 1274 4174 4247 3009 0550  
7471 0034 4444 7867 4136 4345 1944 7977 4094 4154  
3314 4404 9810 4441 5186 2871 4415 4346 4944 4346  
3444 9107 8390 4444 0897 2015 4415 4414 4344 4484  
4474 6058

**MSG NR9269 CK41 51 0204 1905**

1213 0030 2770 9704 5694 7061 3277 6943 1836 3661  
7075 5889 2027 9737 3191 4265 2482 2030 1500 9326  
9638 3904 4725 8638 2149 2101 4163 8643 8712 5274  
0752 9000 0868 5955 8978 5300 2993 4935 1034 4957  
6159

**MSG NR1434 CK42 51 0204 1902**

1213 0030 0570 0820 1683 2575 4231 3025 3405 1076  
8038 3309 3603 2921 2490 0215 3653 7833 8137 1358  
9756 2900 8587 1922 6952 1707 5621 9381 1797 5021  
2202 6357 3805 1060 3586 8421 7967 2211 9738 7246  
8603 9050

AGN (all messages repeated) ZNN SK



FFF 1PNA 1PNA 1PNA MSG NR0385 NR7894 NR8384 NR9269 NR1434  
FFF 1PNA 1PNA 1PNA MSG NR0385 NR7894 NR8384 NR9269 NR1434  
FFF 1PNA 1PNA 1PNA MSG NR0385 NR7894 NR8384 NR9269 NR1434

MSG NR0385 1835

3462 9453 5468 1891 3306 3439 3333 3437 3333 0072  
9389 0132 3306 3383 3323 3363 3353 9375 0272 9116  
0355 1086 3338 3435 3983 7090 0203 3623 0433 7090  
0883 3653 0133 7090 0823 3733 7175 5665 4530 0016  
3333 6793 3045 0133 7374 0023 3293 4313 3083 5186  
3586 8167 0030 0133 8904 3813 3053 3677 6130 3048  
1173 3190 0133 8900 3253 3313 1847 3421 0582 6635  
3403 0233 2570 3153 3263 1847 0306 2627 2632 3790  
0133 7400 0373 3053 3803 3003 6541 2963 1674 5926  
3426 6117 3006 0133 2100 3663 3843 0102 7811 3942

MSG NR7894 1810

3462 9628 5468 7795 3306 3431 3933 3439 4333 5279  
3306 3383 3323 3323 3363 9900 1640 8910 3333 3435  
0233 0518 3753 3653 0133 0518 3953 3223 4244 3586  
9521 3065 0133 0124 4803 3373 3080 5926 0306 4190  
3077 3790 0133 7400 0373 3053 3803 3003 1936 1760  
4203 3641 3638 3181 9965 3403 0233 2570 3153 3263  
4033 7440

MSG NR8384 1904

4357 9578 0358 8349 4835 6106 4448 4347 3384 2191  
4664 4744 4345 1784 2191 1004 4854 1944 2191 1704  
4324 5940 4358 6477 4167 4345 1944 8213 3414 4164  
9800 4375 6477 4691 1944 8213 3754 4154 3733 4085  
9830 1141 1944 8913 4444 4124 4522 7448 1412 4300  
4314 1944 1708 8144 4364 1274 4174 4247 3009 0550  
7471 0034 4444 7867 4136 4345 1944 7977 4094 4154  
3314 4404 9810 4441 5186 2871 4415 4346 4944 4346  
3444 9107 8390 4444 0897 2015 4415 4414 4344 4484  
4474 6058

MSG NR9269 CK41 51 0204 1905

1213 0030 2770 9704 5694 7061 3277 6943 1836 3661  
7075 5889 2027 9737 3191 4265 2482 2030 1500 9326  
9638 3904 4725 8638 2149 2101 4163 8643 8712 5274  
0752 9000 0868 5955 8978 5300 2993 4935 1034 4957  
6159

MSG NR1434 CK42 51 0204 1902

1213 0030 0570 0820 1683 2575 4231 3025 3405 1076  
8038 3309 3603 2921 2490 0215 3653 7833 8137 1358  
9756 2900 8587 1922 6952 1707 5621 9381 1797 5021  
2202 6357 3805 1060 3586 8421 7967 2211 9738 7246  
8603 9050

AGN (all messages repeated)  
ZNN SK

FFF 1PNA 1PNA 1PNA MSG NR0385 NR7894 NR8384 NR9269 NR1434  
FFF 1PNA 1PNA 1PNA MSG NR0385 NR7894 NR8384 NR9269 NR1434  
FFF 1PNA 1PNA 1PNA MSG NR0385 NR7894 NR8384 NR9269 NR1434

(All of the above messages were repeated twice again)  
ZNN SK

**9042 kHz, 07-02, 1042 UTC**

DDDD22221111 DDDD22221111 DDDD22221111 ...

**9042 kHz, 08-02, 1000 UTC**

DDDD22221111 DDDD22221111 DDDD22221111 ...

**17282 kHz. 10-02, 0900 UTC**

XYXYXYXYXY HR CCK /  
74ET 74ET DE F3AU F3AU F3AU  
74ET 74ET 74ET DE F3AU F3AU F3AU  
74ET 74ET 74ET DE F3AU F3AU F3AU  
XYXYXYXYXY HR CCK /  
74ET 74ET 74ET DE F3AU F3AU F3AU  
74ET 74ET 74ET DE F3AU F3AU F3AU  
74ET 74ET 74ET DE F3AU F3AU F3AU  
XYXYXYXYXY HR CCK /  
74ET 74ET 74ET DE F3AU F3AU F3AU  
74ET 74ET 74ET DE F3AU F3AU F3AU  
74ET 74ET 74ET DE F3AU F3AU F3AU  
XYXYXYXYXY HR CCK /  
74ET 74ET 74ET DE F3AU F3AU F3AU  
74ET 74ET 74ET DE F3AU F3AU FUAU  
74ET 74ET 74ET DE F3AU F3AU F3AU  
XYXYXYXYXY HR CCX

**18586 kHz, 11-02, 0930 UTC**

66666226625266DDDDHDBDDDDDDDDDDDDDD  
04928 0074 00000 40656C

**8001.75 kHz, 27-02, 1300 UTC**

FFM PRBM C F PRBM PRBCK  
F PRBM PRBC FFM PRBM C  
FFM PRBM C F PRBM PRBCK  
F PRBM PRBC FFM PRBM C  
FFM PRBM C F PRBM PRBCK  
F PRBM PRBC FFM PRBM C  
FFM PRBM C F PRBM PRBCK  
F PRBM PRBC FFM PRBM C  
FFM PRBM C F PRBM PRBCK  
F PRBM PRBC FFM PRBM C  
FFM PRBM C F PRBM PRBCK  
F PRBM PRBC FFM PRBM C  
etc.

**5394.75 kHz, 27-02, 1300 UTC**

FFM PRBM C F PRBM PRBCK  
F PRBM PRBC FFM PRBM C  
FFM PRBM C F PRBM PRBCK  
F PRBM PRBC FFM PRBM C  
FFM PRBM C F PRBM PRBCK  
F PRBM PRBC FFM PRBM C  
FFM PRBM C F PRBM PRBCK  
F PRBM PRBC FFM PRBM C  
FFM PRBM C F PRBM PRBCK  
F PRBM PRBC FFM PRBM C  
FFM PRBM C F PRBM PRBCK  
F PRBM PRBC FFM PRBM C  
etc.

**14374/13374/11474 kHz, 04-02/06-02, 1310/1330/1350 UTC**

334 334 334 1 334 334 334 1 334 334 334 1  
06982 00301 62391 16245 98570 27874 42224 05795 01024 49529  
27388 36847 41354 19580 90035 01887 12908 61324 91979 78084  
98076 81567 81428 53177 19548 48463 63354 31543 11993 19174  
13792 91782 79507 84750 88734 28559 03784 71468 58826 36740  
88801 90377 18729 10703 57352 08100 28622 96315 59849 96095  
52150 07249 47200 69912 30548 58878 30941 61817 32703 12572  
01666 30076 01911 90785 95122 87386 84896 94618 81576 02353  
93477 41437 32142 99891 86540 84885 97356 73309 91461 40365  
40101 03053 79359 51584 64997 00964 57139 06780 62966 23748  
18695 53111 54557 91701 44781 43828 00960 79133 08862 37523  
66810 25499 24177 44389 47850 61702 09836 58705 40933 74951  
34854 29920 52820 60531 74987 55028 40225 23061 83751 04452  
83563 08349 11060 85266 64921 69333 77283 22311 39508 29325  
62408 37087 88239 19497 16132 04995 78080 32006 41295 75285  
21096 52436 77243 28436 61471 52938 09205 36693 60096 46946  
48523 82592 73182 01892 91780 53423 26836 85008 45925 63959  
08778 67239 75103 93444 87231 47156 85668 93152 95785 12239  
62375 06511 07710 53570 75519 73136 09389 22838 41203 80594  
72019 70269 43451 01072 96244 12776 11323 52924 63221 86095  
77842 63421 91200 88996 22249 71697 29495 21515 44861 75273  
13167 13678 94007 81091 48492 52247 56479 07896 33848 32210  
90320 41540 04908 32029 81182 25740 21628 13417 93508 27945  
99451 08050 37345 73017 56633 58709 88504 30734 28392 96920  
35554 15645 62246 03051 97828 67695 97965 63020 96430 25118  
64627 34814 00004 82171 75090 24880 37323 90154 52726 14317  
98629 79361 41990 69807 39274 15973 98419 31809 81019 40723  
51835 09751 04689 14279 33858 70933 82368 75796 17810 30384  
55542 35323 04120 12538 05211 66787 23571 81354 04218 76701  
38820 24212 06327 12582 33831 41969 05816 03161 32546 13521  
12130 11153 31939 02202 04117 12827 18611 62362 29679 26136  
80547 33578 20028 50511

**14374/13374/11474 kHz, 11-02/13-02/18-02/20-02, 1310/1330/1350 UTC**

334 334 334 1 334 334 334 1 334 334 334 1  
00271 00239 21061 10877 67200 66516 19252 37730 04010 80325  
67318 38571 65211 69033 51294 81882 45092 03690 62090 96046  
89487 70554 48433 97135 34839 74190 21293 96230 76335 48967  
12034 46385 28043 96213 92538 21875 86636 17601 16838 72733  
78162 62139 32406 02812 75524 34125 40132 66017 27588 60486  
42898 18896 80274 70587 52364 07111 34642 60839 72758 79071  
24283 44413 57154 57452 30352 88979 20716 47198 74122 24641  
67067 66034 88316 82393 09453 86419 21323 15095 73430 34373  
59897 75482 01433 76234 61233 19825 20472 81469 26590 32097  
61440 84346 51546 77295 52279 01143 74333 28628 19642 57756  
65611 93782 83618 43763 65019 15866 43412 17770 27388 73487  
90451 91656 99983 22583 96668 15736 58848 79468 70720 46515  
86404 12236 89468 39669 41287 59800 81277 89846 16239 72042  
17712 55312 75781 54381 26740 22112 89154 66962 22347 04099  
93739 27833 88183 68166 95500 84695 03340 47418 63666 21980  
09553 44818 31361 22862 91804 95133 09090 76508 00895 71422  
19229 02506 93698 59505 75119 44786 91829 58548 03021 36584  
05591 31714 73023 93365 35128 07423 66479 83545 82224 26475  
45330 68880 45578 42087 94083 30547 10901 93479 66587 16442  
70687 96403 02808 03182 86203 61189 64858 92079 05365 21389  
18195 13353 84549 60796 04483 53371 07247 07342 34382 23973  
34876 47395 95358 91753 76084 74833 97688 25531 91451 79798  
44198 90126 62002 75853 94006 62144 44118 93621 73606 20767  
69672 04843 12230 16968 09627 17126 69395 67838 53345 32972

12951 77770

**14374/13374/11474 kHz, 25-02/27-02, 1310/1330/1350 UTC**

334 334 334 1 334 334 334 1 334 334 334 1

07196 00445 73400 76871 30592 73365 08493 69256 78884 31559  
33193 80952 51042 79934 90362 03893 86182 35594 95862 74291  
13487 58207 34633 15297 05656 64856 64825 26442 22077 85390  
08157 65545 54713 79361 04692 84712 12048 55763 96656 53545  
04892 17559 90731 69400 45383 03793 09668 13436 14483 22170  
55351 99758 85061 59404 24129 75003 64779 62725 78410 40203  
44282 34627 84260 17807 44067 49754 19995 51357 15549 66303  
98149 64285 34355 13849 93443 79399 59320 42998 35929 94736  
52206 78673 52649 20490 03031 99855 44762 30056 85122 99499  
78862 73552 13121 44786 87808 56535 45171 70941 61860 14376  
07730 44590 53357 84550 69171 85048 18685 97354 22604 05394  
90744 79336 73789 88299 56473 18832 38697 96548 12476 69430  
52084 02402 75900 75497 09799 99747 66761 03029 90008 71860  
66177 52154 11090 38243 17386 71874 96616 19350 58308 80744  
29283 70284 00664 14386 50384 66245 51038 36232 92636 26633  
13494 20286 17554 25739 75187 77860 18080 42788 50031 45325  
89723 08328 36900 85363 41565 88889 53982 58258 39495 92753  
67875 80663 46391 58679 84308 50643 21667 38140 54904 93888  
85101 52635 82499 11825 72182 95267 16899 61276 19770 36060  
93809 10992 17292 56301 12301 63415 74864 63037 53720 42475  
66134 37880 76572 04474 13859 84074 55455 75404 26204 75727  
65046 12074 72829 72565 56500 09110 58154 78354 18315 30277  
07019 90475 87172 97578 65045 36944 68448 59017 26117 58772  
08305 06930 98298 47304 78670 63775 44314 06094 83959 25840  
13308 00175 51718 85391 64711 33021 76296 94826 77816 42732  
82527 77297 49059 27287 26509 85972 04450 36854 45086 61627  
48251 89111 15240 11738 15876 64683 88337 72694 80504 44575  
24696 10463 84416 51810 01478 51928 40537 80386 35790 56388  
05522 72173 24001 12130 35654 50231 04844 96616 94671 44246  
06038 77194 46169 78779 85475 69922 75910 95947 40087 09594  
87351 87545 54859 48908 33986 42113 24394 59023 18361 71909  
20982 86553 61377 27076 69291 32684 38804 39705 27703 35491  
19060 50988 38352 08974 25288 14399 60542 98643 25684 26151  
09379 32987 86353 00176 07810 51419 35535 10771 34936 49795  
25569 70625 07633 34602 03731 01157 56590 38404 20631 93336  
79232 41850 90841 34580 76783 88983 18197 89977 48656 00251  
73346 46613 93678 72906 28028 94410 68498 49959 30698 38893  
30177 46471 24787 75612 28544 36571 77215 05220 45107 82849  
61646 42291 03221 36494 36530 08332 06991 29949 23819 76795  
65283 71763 84346 28638 16983 56789 78169 57354 00686 65995  
49098 47912 39537 66803 31351 08989 96818 64962 82322 76076  
68043 74952 79060 89117 90313 54090 53326 91350 77683 66287  
46555 25740 29283 60551 04519 77304 42313 84225 49472 77763  
09014 47677 42725 93808 66312 98264 06918 47429 00890 38100  
60680 06474 55525 39640 48077 00247 08489 22335

**XPA2**

13387/13887/14787 kHz, 0800/0820/0840 UTC

**13387/13887/14787 kHz, 02-02, 0800/0820/0840 UTC**

07805 00001 00000 37657

**13387/13887/14787 kHz, 04-02, 0800/0820/0840 UTC**

06047 00001 00000 34662

**13387/13887/14787 kHz, 09-02/11-02/16-02/18-02, 0800/0820/0840 UTC**

03272 00126 82156 36742 37300 80149 80786 37134 46033 51263  
23118 94544 02775 94489 65620 49424 22732 71605 56528 19354  
34959 32270 69178 35986 79142 90997 96622 65328 02713 86170  
33356 55682 26321 81839 88363 51889 66857 78839 52449 52647  
53799 02801 69545 46395 99792 93600 71462 77970 59599 93400  
26439 72022 62283 06357 40512 68452 52216 94087 42640 30321  
02285 24034 91477 27785 67196 53930 79179 91399 21475 96620  
57706 09518 54304 84825 46967 81708 49582 69820 65056 93939  
75068 87032 45581 73575 78738 47511 89030 07187 49321 64164  
71141 31754 96205 13022 03597 81057 83077 69188 85362 11477  
52223 25985 77861 87142 23185 21451 58812 22065 93452 08612  
72346 23953 80957 56051 03725 79784 59053 73270 73988 24507  
61938 96945 36204 62279 58770 13378 69421 98581 72016

**13387/13887/14787 kHz, 25-02, 0800/0820/0840 UTC**

09940 00001 00000 35665

**19297/18586/17473 kHz, 0810/0830/0850 UTC**

**19297/18586/17473 kHz, 02-02, 0910/0930/0950 UTC**

05155 00001 00000 34262

**19297/18586/17473 kHz, 04-02, 0910/0930/0950 UTC**

06796 00001 00000 37667

**19297/18586/17473 kHz, 09-02, 0910/0930/0950 UTC**

03301 00001 00000 33253

**19297/18586/17473 kHz, 11-02, 0910/0930/0950 UTC**

04928 00001 00000 41656

**19297/18586/17473 kHz, 16-02/18-02, 0910/0930/0950 UTC**

06509 00110 98264 15295 77002 43300 53869 14331 17674 11686  
03918 90772 88841 35783 25587 26008 41323 23717 02008 97639  
71700 72153 71004 00276 11202 33866 36069 81350 03066 33324  
30656 14351 46943 94048 85584 01642 37622 80498 50004 71879  
51555 00883 66491 24969 33365 84870 58288 05428 20485 66819  
13187 03547 90487 21879 87247 68464 20003 41522 64718 79147  
15860 46149 11878 84606 39267 90032 06002 07641 98284 20822  
81562 12463 25125 80913 48810 06609 91310 12943 47481 87753  
75855 45361 21697 16123 13822 64605 20066 23075 98788 30417  
43096 15499 24613 81074 88707 53369 02721 98995 32666 89477  
33491 70333 51980 56509 18266 22876 27103 55657 37296 90964  
77115 47807 26270

**19297/18586/17473 kHz, 23-02, 0910/0930/0950 UTC**

07103 00001 00000 10140

**19297/18586/17473 kHz, 25-02, 0910/0930/0950 UTC**

06219 00001 00000 10140

**11461/10261/9161 kHz, 1600/1620/1640 UTC**

**11461/10261/9161 kHz, 02-02, 1600/1620/1640 UTC**

09225 00001 00000 34663

**11461/10261/9161 kHz, 07-02, 1600/1620/1640 UTC**

02425 00001 00000 35654

**11461/10261/9161 kHz, 09-02/14-02, 1600/1620/1640 UTC**

04838 00194 02182 91123 61657 42117 84065 10696 67414 51204  
26960 07285 21991 93324 56429 96073 31312 24413 59924 64638  
27009 71725 03325 12436 85119 74938 93042 71398 95965 01981  
22659 01314 95229 48288 22794 07455 73642 55512 03440 84147  
20545 36517 04129 37727 84349 39092 98148 64048 85235 66802  
20916 44305 41924 02500 28192 55701 23617 95147 21397 88894  
68272 46269 10106 69882 75191 06317 67050 86868 99706 34604  
83470 66652 44484 70922 00976 22905 72418 63365 57451 28203  
30404 20192 16431 14513 43141 48604 71014 09675 07630 22889  
62399 02647 76054 65358 65511 10743 23256 70863 61127 58646  
12950 04718 97879 30239 12491 75057 38764 59157 97902 26288  
04224 64178 16554 57281 52422 35616 71674 06055 17999 42962  
34915 11669 04384 68130 63463 40349 28106 58406 68159 81545  
99330 70573 33937 38768 39425 74153 38390 11645 78131 57134  
79957 45475 96257 41732 81667 48333 29898 81767 94011 21926  
81870 00413 77512 70751 22617 40805 05576 35713 34539 96478  
94292 45587 65027 60622 04547 07517 36440 88844 81107 93369  
33222 96171 22411 76767 78367 52251 41002 14457 31683 70631  
43024 43518 82058 19515 41020 21177 15771 31123 86014 03586  
66708 57963 18308 52971 07863 60736 41670

**11461/10261/9161 kHz, 16-02, 1600/1620/1640 UTC**

02852 00001 00000 36257

**11461/10261/9161 kHz, 21-02, 1600/1620/1640 UTC**

05995 00001 00000 40266

**11461/10261/9161 kHz, 23-02/28-02, 1600/1620/1640 UTC**

00841 00201 59616 65831 70039 80703 38720 40940 16828 06824  
58371 52771 94035 25721 66747 88336 26871 73907 91825 07846  
55927 86720 86737 14094 46188 07307 59661 40702 69387 11911  
44561 90571 36685 25288 21940 94881 06650 37118 41887 07897  
23767 68319 01811 29297 01270 11937 16549 28298 84241 48749  
49058 58285 58055 07317 33317 07184 02242 51808 78806 54005  
56316 92924 00473 87618 83287 24900 55907 27027 99448 32546  
45482 69663 15568 30766 57758 11742 84798 60187 54688 35807  
03917 79690 44383 49229 05646 73802 19068 52345 84724 12694  
81271 35015 35087 13330 32336 32504 89987 98210 78097 00144  
68299 62688 87045 92133 38707 09734 50632 73229 32859 28681  
17472 85408 32033 39782 49013 68703 66025 49756 12275 69119  
07947 79170 83018 14938 51145 40954 67169 24933 20642 31310  
50383 88804 16788 13081 60234 82696 54330 70152 23424 09142  
85976 73769 17338 76731 00494 11469 09402 83937 90808 08598  
48040 45858 49494 59396 66063 99993 08290 96262 62759 92746  
45737 94760 62387 80034 18125 76777 30328 89485 80145 65817  
90263 52099 85352 37102 79869 71339 39800 28266 23256 54559  
62382 93386 51324 83703 27029 01489 90256 79084 64430 50803  
76304 52133 19816 60416 77138 48589 25117 12565 35859 88349  
53879 33370 70754 07257

|                                          |
|------------------------------------------|
| 12147/10347/9247 kHz, 1100/1120/1140 UTC |
|------------------------------------------|

**12147/10347/9247 kHz, 03-02, 1100/1120/1140 UTC**

01680 00001 00000 10140

**12147/10347/9247 kHz, 06-02, 1100/1120/1140 UTC**

02691 00001 00000 10140

**12147/10347/9247 kHz, 10-02, 1100/1120/1140 UTC**

01492 00001 00000 10140

**12147/10347/9247 kHz, 13-02, 1100/1120/1140 UTC**

07367 00001 00000 10140

**12147/10347/9247 kHz, 17-02/20-02, 1100/1120/1140 UTC**

03646 00098 25093 63909 72246 69102 74604 99226 44143 47756  
57010 84062 87888 08460 90498 99694 54232 50773 32510 15805  
70771 86476 64684 13456 14811 80316 41134 27554 12379 19260  
71640 18940 17805 13413 81111 71685 96323 87426 04499 48097  
28960 82911 37660 73788 66853 34194 36185 39944 41445 58975  
79307 12782 56647 85161 26548 27110 43752 92446 89079 36473  
35450 79712 22292 42723 41737 47430 60211 97761 21043 56018  
43180 20372 60854 00515 55565 00362 21353 19239 93678 60837  
18014 38807 52664 73956 91229 87994 72724 20149 79189 54383  
45597 11379 80897 82888 98003 97911 65508 60704 51361 32629  
62157

**12147/10347/9247 kHz, 24-02/27-02, 1100/1120/1140 UTC**

05176 00180 03698 55828 45177 70383 51366 10325 28486 85237  
65422 39951 75850 72342 27819 84590 26118 18283 49094 99230  
91748 97593 43912 63720 15016 55985 77691 33460 45287 15989  
52306 41875 53295 23294 34978 42894 83935 52752 86660 45002  
72476 87574 35685 95184 85003 64423 41118 96490 16413 95331  
57726 07443 47856 86403 53930 55599 99120 61838 39398 77211  
48574 96392 16590 95549 60766 82571 85753 06896 15599 83122  
46841 30265 13350 45087 34935 92698 08474 14542 91178 99726  
77432 64120 25960 49629 79982 63747 31551 89936 52853 46023  
89831 32112 63884 84004 85938 01049 53661 61654 56877 59620  
05586 79063 54477 11329 88003 51260 88018 07780 43221 30385  
63172 85824 21501 90557 33763 13752 52887 80646 86887 95577  
66287 25592 78066 55523 60228 96283 76128 66775 69667 86810  
65842 77145 61544 31339 56679 33181 85910 96874 66847 30248  
28556 33164 10314 55508 42082 88221 63741 46788 40362 85120  
95735 21067 56480 77589 21538 37537 87736 48652 43622 04973  
28274 52593 51829 84979 55395 55216 11190 84177 77202 25627  
62418 55724 10136 36182 15822 72455 61077 89929 66221 62182  
66453 67511 71352

**13417/12195/11574 kHz, 1700/1720/1740 UTC****13417/12195/11574 kHz, 03-02, 1700/1720/1740 UTC**

06412 00001 00000 34257

**13417/12195/11574 kHz, 05-02, 1700/1720/1740 UTC**

04359 00001 00000 37261

**13417/12195/11574 kHz, 10-02/12-02, 1700/1720/1740 UTC**

07839 00275 21959 11091 13128 49044 95189 01669 81350 56571  
44530 97802 26257 68909 07896 32694 35211 71673 28313 05447  
84520 86834 28984 56788 18691 09256 94171 92868 69000 29084  
94178 61911 57375 51970 81317 74003 43822 28781 82916 11428  
15662 86770 53424 88279 60266 13137 99049 97292 22959 37109  
48912 14072 35453 29812 04674 77099 52360 36508 87219 39992  
55105 92493 26834 27891 04031 82467 76288 37102 87624 87412  
99154 60731 20845 04535 94232 20468 02318 56571 56730 61402  
30057 20829 10793 93746 20395 19836 71529 81287 89806 86040  
37797 34604 49381 01584 15696 08069 13236 57667 19222 45998  
27645 59421 05864 45327 63889 45825 40030 96769 83211 53638  
24284 25490 75133 06212 39895 04926 62392 85611 04691 85072  
06346 64951 92522 23087 40440 15057 69981 34069 27039 56776  
55498 49202 06317 74529 75894 27353 19526 46680 63753 52215  
63617 75691 00351 40205 18652 96019 01365 64289 97258 51681  
91902 59586 53008 77295 30181 39164 37237 65326 91341 67322  
49924 88124 29609 55561 04873 17248 75601 32518 73705 40972  
06142 13176 19558 10776 20178 30984 34558 08307 35622 81942  
76116 25422 11430 76215 51925 97409 74926 75723 92778 51242

39435 66579 18197 52274 58913 90998 49849 23360 53586 78986  
87014 43180 70601 11511 98086 39049 75469 92508 51810 29595  
13119 63205 29737 67454 78449 35955 81381 01976 28505 29814  
24691 62533 45045 36678 40307 66530 87162 56552 16953 56433  
02115 89942 57846 96468 17070 07536 63604 34189 45135 43451  
22964 25433 27980 67880 64781 67010 88429 70280 94529 00044  
36746 43941 99788 02631 09154 22627 30714 46840 93244 14154  
72993 82798 59157 02232 99092 49505 82066 53719 57367 04972  
60865 97502 16230 94618 32698 03319 08629 21562

**13417/12195/11574 kHz, 17-02, 1700/1720/1740 UTC**

05423 00001 00000 34657

**13417/12195/11574 kHz, 19-02, 1700/1720/1740 UTC**

01082 00001 00000 32261

**13417/12195/11574 kHz, 24-02/26-02, 1700/1720/1740 UTC**

00550 00212 37167 92409 82762 59626 42882 47465 43407 46734  
36623 01346 85728 85436 23091 86636 10168 06710 19023 77074  
54206 04648 01790 15046 49077 85578 08363 34571 89255 01702  
52687 34662 67970 45863 94888 83386 93547 29317 36686 69203  
95828 05092 91637 97216 64366 96848 62465 83760 71945 90964  
66438 13369 70192 90936 35125 51008 44521 16775 82473 21469  
36457 93340 52506 29020 27339 91039 95627 95598 40039 91444  
79179 21639 14750 78160 67111 00639 49944 38797 69465 11069  
10059 59797 16719 59361 40646 18489 43960 42818 69187 34679  
37727 40890 13232 12115 51358 40196 64703 30151 57522 27808  
13934 67381 73850 85557 19834 93176 80970 04596 92655 16079  
12564 73714 97968 64958 80841 74839 65698 94364 07861 39772  
98579 44370 28208 82335 74139 49489 79962 50347 54975 09320  
83354 06430 21268 38335 61710 19342 89236 77283 76207 03283  
44898 57193 86069 99727 44953 04237 17177 11900 08329 70115  
81005 06652 18499 98221 02565 77648 23826 77727 95598 67077  
17739 21018 91976 65644 52808 21935 74671 60706 48319 86740  
27470 54177 78691 47440 37888 90151 01080 92110 77514 40419  
31418 48033 34848 64324 03574 01221 17408 35432 53060 41105  
26598 99881 20191 89276 48254 08049 77898 04685 94388 04813  
64773 14483 16970 24849 42947 76114 67154 70775 62485 70547  
87308 72420 18627 15285 03476

|                                           |
|-------------------------------------------|
| 13967/13367/11567 kHz, 1100/1120/1140 UTC |
|-------------------------------------------|

**13967/13367/11567 kHz, 04-02/05-02, 1100/1120/1140 UTC**

**05-02, 1100 UTC: Off after 31sec**

00793 00089 96660 99987 67652 08034 03435 49060 43887 32771  
09337 71160 69356 31095 94291 41589 16332 89289 53822 22878  
92127 17857 81774 85217 16313 46807 70211 85015 42885 06042  
46348 33033 36011 17709 73659 92484 92334 06440 52888 85402  
56547 86580 72286 16627 02402 50941 18950 85688 45879 87812  
05945 13126 60758 58894 62633 03993 00847 97464 22746 74369  
62699 26473 59651 99415 47566 46255 49679 72125 31261 59136  
04185 54997 86228 58836 11774 59679 21124 47406 51223 42720  
95170 88261 11630 84978 31320 98507 61213 81750 61100 54512  
10634 75250

**13967/13367/11567 kHz, 11-02, 1100/1120/1140 UTC**

09372 00001 00000 33670

**13967/13367/11567 kHz, 12-02, 1100/1120/1140 UTC**

06716 00001 00000 37657



**13967/13367/11567 kHz, 18-02/19-02, 1100/1120/1140 UTC**

00153 00114 82307 61082 80821 50025 72370 03085 17867 59545  
13656 18764 15029 47422 73062 03306 16594 95488 89637 08415  
10683 39091 54807 17566 97877 11375 63206 80536 61396 29524  
87885 41082 67142 91222 49583 07210 66225 80160 35694 87810  
54760 39681 05669 77745 66336 25466 27622 40228 75803 40800  
35516 95736 38807 51906 57096 36875 05080 55919 61236 61572  
16093 90713 79904 97442 04180 09419 30146 07605 71270 57851  
58661 89112 30897 20596 90951 01206 20922 54803 03135 45930  
71893 86094 95108 74119 61864 68672 17647 98022 21514 68862  
23159 46170 77347 55604 42164 16921 01603 39334 89524 30066  
01550 52813 91224 27290 39864 19231 66807 69214 47800 42180  
01071 79297 00493 58639 79039 45273 15535

**13967/13367/11567 kHz, 25-02, 1100/1120/1140 UTC**

02550 00001 00000 10140

**13967/13367/11567 kHz, 26-02, 1100/1120/1140 UTC**

09315 00001 00000 10040

**14956/16356/17456 kHz, 1200/1220/1240 UTC****14956/16356/17456 kHz, 04-02/06-02, 1200/1220/1240 UTC**

00972 00103 79910 69843 98169 70240 64618 17419 53016 17219  
25323 91676 71547 23493 26796 50371 34205 90143 94857 28958  
14378 94833 67568 10792 93725 59711 02860 01231 75293 52702  
04337 84102 67734 88439 87877 92346 74548 00305 77293 63080  
41203 90167 67048 30506 91390 44078 29794 53152 81251 40105  
06337 75682 94685 12685 72871 96755 39923 04570 99245 19436  
20060 95923 12898 30159 96935 20754 14908 89692 36567 83135  
46055 21466 79196 37891 11419 54013 98629 69302 65323 98820  
62306 57979 47307 38057 15508 82720 76079 91475 23822 46981  
96697 08577 14382 11023 20179 69939 64652 83259 09353 76670  
04916 86331 69418 44618 18844 33375

**14956/16356/17456 kHz, 11-02, 1200/1220/1240 UTC**

08544 00001 00000 35664

**14956/16356/17456 kHz, 13-02, 1200/1220/1240 UTC**

05732 00001 00000 35660

**14956/16356/17456 kHz, 18-02/20-02, 1200/1220/1240 UTC**

03627 00239 18908 48785 71880 79613 83335 00345 04815 98379  
42044 56457 20687 89968 61364 83267 62794 52502 59115 68117  
44151 42092 56576 61302 57419 39439 20582 49662 11786 34282  
44773 57590 48628 78479 09522 42288 44772 79900 04841 50233  
16325 05613 22107 45258 68695 47459 74779 63435 59119 00647  
61471 88906 55597 56875 90846 70859 05667 49219 25964 70701  
84917 04184 79130 53135 00510 19803 68669 45359 70660 19081  
80101 30707 25206 53724 02355 70801 88686 88698 59185 90040  
86977 44366 38227 36686 73081 97835 72761 92885 92762 89778  
72004 84996 13417 62605 39473 01249 99250 77217 69572 53220  
84010 84696 19882 75716 06461 10734 60675 01423 93744 80030  
00449 14277 12974 81739 78057 38325 47193 97407 96634 68144  
70633 09293 27465 90423 48287 39976 06585 99928 04110 60053  
24292 03396 72573 02179 02992 90093 68793 03251 13376 79720  
79573 75880 42054 64577 74259 06083 02898 32074 82602 08869  
30545 55689 70890 55844 50109 59711 48896 01344 26828 34513  
47458 72367 62343 46568 15410 56238 82724 93381 05558 47261  
92672 35284 95179 28558 78200 77654 50265 54422 35287 13922  
14347 69059 43943 13061 02828 33972 44962 98190 93941 13885  
17114 51922 45133 93440 64727 89358 26122 88851 19782 48992  
81976 92605 51718 07776 04136 57007 98467 17148 48506 88546

78530 14507 54473 84339 53983 22224 11430 62840 32685 87194  
94667 14832 35829 87326 01001 62683 30153 76478 46800 39056  
47700 19231 21251 92027 34781 92867 41986 87565 92386 49067  
49017 36453

**14956/16356/17456 kHz, 25-02/27-02, 1200/1220/1240 UTC**

00855 00083 81765 31588 73118 01333 06550 43008 65673 71144  
21024 01392 72788 55303 71664 37024 30635 58276 86167 65504  
64830 30263 07662 63611 66830 66066 12460 85468 88767 89918  
23849 16613 56845 32746 88564 18358 02433 22255 85058 33179  
59377 21172 34088 72670 40632 60668 40333 88627 55636 55524  
78302 55887 61332 65635 73580 38326 31655 25887 55608 13448  
00476 46376 30602 10380 08588 38299 44810 23602 28233 87564  
68348 50122 94559 34724 69171 00507 59117 73996 58644 10477  
80333 88819 49090 06575 89682 62266

|                                           |
|-------------------------------------------|
| 19325/18179/17451 kHz, 0900/0920/0940 UTC |
|-------------------------------------------|

**19325/18179/17451 kHz, 05-02/07-02, 0900/0920/0940 UTC**

00902 00068 85168 82021 54004 91458 01259 14872 65605 07526  
27144 76669 60879 26092 48839 82941 77716 50719 25280 82063  
97414 65584 78296 15100 43647 82171 48631 02744 69371 64841  
78530 01736 77854 62860 99130 18379 81253 60966 50098 27075  
66353 40621 74105 69423 70796 79800 36864 57018 31279 64701  
14016 06547 96175 64459 35511 96121 12596 56380 65393 75432  
08950 42402 91180 84767 77366 21439 68410 66979 18189 09619  
60044

**19325/18179/17451 kHz, 12-02/14-02, 0900/0920/0940 UTC**

00858 00145 03878 55361 66638 26888 87884 08868 51916 99348  
83690 12177 73757 98233 55477 17252 95146 32838 02494 30124  
16277 59500 93395 64177 02277 15980 27984 39253 66479 44629  
98405 31390 74750 81847 48995 00117 29264 35882 40861 02800  
51199 19423 99009 72793 18082 83357 28691 29384 72739 28000  
06178 64750 99700 41592 72920 37085 39053 46286 54423 71525  
72539 27328 59357 79400 06964 32725 15874 46484 78417 38623  
86038 05968 07047 92495 75234 95646 44348 61299 87637 52185  
10468 13596 63221 09663 25257 31169 80316 67700 67612 50077  
19081 04084 58855 36917 14043 77995 49534 45684 19205 38218  
77991 12724 07603 08104 64600 20786 40647 12980 05317 11840  
97864 37835 00312 09365 10280 28273 97782 60584 19811 35031  
37041 71079 16467 07988 48075 14409 00750 70754 52860 31946  
34970 58440 82028 36100 20405 12128 19003 18832 88666 83844  
26647 28327 58689 66515 24152 42074 88847 47174

**19325/18179/17451 kHz, 19-02/21-02, 0900/0920/0940 UTC**

00643 00112 06849 88050 54947 30374 89711 87979 91308 43576  
62240 63898 49474 31062 73304 13970 37921 45749 94499 15926  
54862 42749 18274 34648 48480 62232 80736 42511 85707 80843  
38356 00008 93266 53521 27840 08324 93946 60858 12147 92679  
82065 92400 00931 32508 40264 75418 70466 97586 68367 37845  
74598 53448 39933 33666 92329 21434 61751 10998 40257 74995  
62882 02109 49985 00413 26773 55457 82233 97554 98785 72704  
03381 48534 28575 50799 40192 98327 10235 82575 12277 24743  
04726 65464 14901 49311 30534 41962 86552 98758 07553 81538  
05267 47013 93339 08548 99707 54404 24177 20748 75086 04897  
61767 97243 85933 18447 63587 79517 72900 88109 20983 50775  
79297 32995 80502 66875 21405

**19325/18179/17451 kHz, 26-02, 0900/0920/0940 UTC**

02933 00001 00000 10140

**19325/18179/17451 kHz, 28-02, 0900/0920/0940 UTC**  
04717 00001 00000 10140

## ***XPB1***

19461 kHz, 02-02/03-02/09-02/10-02, 0600 UTC  
19261 kHz, 02-02/03-02/09-02/10-02, 0610 UTC  
18261 kHz, 02-02/03-02/09-02/10-02, 0620 UTC  
16261 kHz, 02-02/03-02/09-02/10-02, 0630 UTC  
15861 kHz, 02-02/03-02/09-02/10-02, 0640 UTC  
14961 kHz, 02-02/03-02/09-02/10-02, 0650 UTC

Frequency change per 16 February.

19521 kHz, 16-02/17-02/23-02/24-02, 0600 UTC  
19121 kHz, 16-02/17-02/23-02/24-02, 0610 UTC  
18221 kHz, 16-02/17-02/23-02/24-02, 0620 UTC  
17421 kHz, 16-02/17-02/23-02/24-02, 0630 UTC  
16321 kHz, 16-02/17-02/23-02/24-02, 0640 UTC  
15821 kHz, 16-02/17-02/23-02/24-02, 0650 UTC

New schedules

19521 kHz, 26-02/27-02, 0600 UTC  
19121 kHz, 26-02/27-02, 0610 UTC  
18221 kHz, 26-02/27-02, 0620 UTC  
17421 kHz, 26-02/27-02, 0630 UTC  
16321 kHz, 26-02/27-02, 0640 UTC  
15821 kHz, 26-02/27-02, 0650 UTC

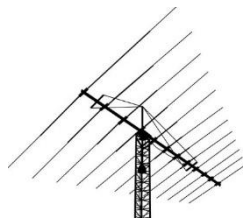
20035 kHz, 03-02/06-02/10-02/13-02/17-02/20-02/24-02, 1300 UTC  
19235 kHz, 03-02/06-02/10-02/13-02/17-02/20-02/24-02, 1310 UTC  
18335 kHz, 03-02/06-02/10-02/13-02/17-02/20-02/24-02, 1320 UTC  
17435 kHz, 03-02/06-02/10-02/13-02/17-02/20-02/24-02, 1330 UTC  
16235 kHz, 03-02/06-02/10-02/13-02/17-02/20-02/24-02, 1340 UTC  
15835 kHz, 03-02/06-02/10-02/13-02/17-02/20-02/24-02, 1350 UTC

## ***X--***

18564 kHz, 18-02, 0937 UTC  
16256 kHz, 18-02, 0941 UTC  
15624 kHz, 18-02, 0947 UTC  
19854 kHz, 25-02, 1433 UTC  
18564 kHz, 25-02, 1436 UTC

## ***X06***

12250 kHz, 16-02, 0639-0820 UTC 111666  
13400 kHz, 16-02, 1151-1244 UTC 111666  
15400 kHz, 16-02, 1249-1254 UTC 111666



## DIPLOMATIC STATIONS

### Diplomatic stations: Bulgaria

14755 kHz, 03-02, 0924 UTC, RFSM-8000  
17440 kHz, 03-02, 1332 UTC, RFSM-8000  
18455 kHz, 03-02, 1356 UTC, RFSM-8000  
14755 kHz, 06-02, 0923 UTC, RFSM-8000  
17440 kHz, 06-02, 1322 UTC, RFSM-8000  
18455 kHz, 06-02, 1358 UTC, RFSM-8000  
14755 kHz, 11-02, 0858 UTC, RFSM-8000  
17440 kHz, 11-02, 1314 UTC, RFSM-8000  
18455 kHz, 11-02, 1400 UTC, RFSM-8000  
14755 kHz, 12-02, 0921 UTC, RFSM-8000  
17440 kHz, 12-02, 1321 UTC, RFSM-8000  
18455 kHz, 12-02, 1400 UTC, RFSM-8000  
14755 kHz, 13-02, 0924 UTC, RFSM-8000  
18455 kHz, 13-02, 1356 UTC, RFSM-8000  
14755 kHz, 18-02, 1200 UTC, RFSM-8000  
17440 kHz, 18-02, 1322 UTC, RFSM-8000  
13364 kHz, 18-02, 1323 UTC, RFSM-8000  
18455 kHz, 18-02, 1358 UTC, RFSM-8000  
13365 kHz, 26-02, 1321 UTC, RFSM-8000  
14755 kHz, 26-02, 0919 UTC, RFSM-8000  
17440 kHz, 26-02, 1321 UTC, RFSM-8000  
9375 kHz, 27-02, 0822 UTC, RFSM-8000  
14755 kHz, 27-02, 0923 UTC, RFSM-8000  
17440 kHz, 27-02, 1321 UTC, RFSM-8000  
18455 kHz, 27-02, 1355 UTC, RFSM-8000

### Diplomatic stations: North Korea

16252 kHz, 09-02, 1212 UTC, DPRK ARQ 600/600/LSB  
16203 kHz, 09-02, 1213 UTC, DPRK ARQ 600/600/LSB  
14250 kHz, 10-02, 1301 UTC, DPRK ARQ 1200/600 LSB  
14150 kHz, 10-02, 1302 UTC, DPRK ARQ 600/600 LSB  
14300 kHz, 11-02, 0930 UTC, DPRK ARQ 600/600 LSB

DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva  
Unid DPRK embassy wkg DPRK embassy Moscow  
DPRK embassy Rome wkg DPRK embassy Moscow  
DPRK embassy Moscow wkg Permanent Mission to the UN, Geneva  
DPRK embassy Moscow: msg 373 to DPRK embassy Sofia.  
Chat: ok sk ok sk ok sk (meaning: end of transmission)  
00000 06640 00056 44381 85071 25666 73995 56593 16312 08385  
93163 12083 87389 29456 64006 67175 18013 15360 04071 51009  
66067 94983 62261 19897 12563 27609 49231 18100 01575 07353  
75266 32797 81604 99167 97816 04991 67978 16049 91652 28502  
82269 44636 46318 04166 98441 48876 31688 31100 62212 50034  
20289 73988 24877 89186 07642 82437 43901 16570 47376 08125  
68183 76081 25681 93760 81256 81874 04079 56260 57969 07340  
94634 07762 97309 14407 79973 09198 31254 95769 98312 54117  
69256 65640 65729 90909 17844 49906 40917 84449 90909 57844  
49909 09178 44414 74767 44872 86516 69612 50236 56929 54150  
47582 28014 91536 82280 14915 36861 28014 91536 17057 93738  
09338 23096 33343 38030 96333 40765 66058 45307 65660 58456  
20765

14300 kHz, 11-02, 0937 UTC, DPRK ARQ 600/600 LSB  
16252 kHz, 11-02, 0930 UTC, DPRK ARQ 600/600 LSB  
16250 kHz, 11-02, 0938 UTC, DPRK ARQ 1200/600 LSB  
16250 kHz, 11-02, 0948 UTC, DPRK ARQ 1200/600 LSB

DPRK embassy Moscow clg DPRK embassy Berlin  
DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva  
DPRK embassy Rome clg DPRK embassy Moscow  
DPRK embassy Rome wkg DPRK embassy Moscow

13200 kHz, 12-02, 0811 UTC, DPRK ARQ 600/600 LSB  
 13200 kHz, 12-02, 0815 UTC, DPRK ARQ 600/600 LSB  
 16252 kHz, 12-02, 1045 UTC, DPRK ARQ 600/600 LSB  
 11090 kHz, 12-02, 1057 UTC, DPRK ARQ 1200/600 LSB  
 14150 kHz, 12-02, 1300 UTC, DPRK ARQ 600/600 LSB

14150 kHz, 12-02, 1315 UTC, DPRK ARQ 600/600 LSB

16150 kHz, 12-02, 1318 UTC, DPRK ARQ 600/600 LSB  
 16252 kHz, 12-02, 1525 UTC, DPRK ARQ 600/600 LSB  
 14100 kHz, 16-02, 0700 UTC, DPRK ARQ 1200/600 LSB  
 14300 kHz, 17-02, 0730 UTC, DPRK ARQ 600/600 LSB  
 14150 kHz, 17-02, 0732 UTC, DPRK ARQ 600/600 LSB  
 14150 kHz, 22-02, 0721 UTC, DPEK ARQ 600/600 LSB  
 13120 kHz, 23-02, 1220 UTC, DPRK ARQ 600/600 LSB  
 14300 kHz, 24-02, 0633 UTC, DPRK ARQ 600/600 LSB  
 17410 kHz, 24-02, 0704 UTC, DPRK ARQ 1200/600 LSB  
 14150 kHz, 24-02, 0723 UTC, DPRK ARQ 600/600 LSB  
 14250 kHz, 24-02, 0812 UTC, DPRK ARQ 600/600 LSB  
 15555 kHz, 24-02, 0813 UTC, DPRK ARQ 600/600 LSB

DPRK embassy Moscow clg DPRK embassy Stockholm  
 DPRK embassy Moscow clg DPRK embassy Warsaw  
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva  
 DPRK embassy Rome wkg DPRK embassy Moscow  
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva.  
 Chat: ok sk 1rt (meaning: I have received 1 msg, end of transmission)  
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva.  
 Changed freq to 16150 khz  
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva  
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva  
 DPRK embassy Rome wkg DPRK embassy Moscow  
 DPRK embassy Moscow wkg DPRK embassy Berlin  
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva  
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva  
 Unid DPRK embassy wkg DPRK embassy Moscow  
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva  
 DPRK embassy Moscow wkg DPRK embassy Prague  
 DPRK embassy Moscow wkg DPRK embassy Sofia  
 DPRK embassy Moscow wkg DPRK embassy Bucharest  
 Unid DPRK embassy wkg DPRK embassy Moscow

## Diplomatic stations: Russia

12152 kHz, 02-02, 0837 UTC, MFSK-6  
 17454 kHz, 03-02, 0837 UTC, MFSK-6  
 17454 kHz, 03-02, 0841 UTC, MFSK-6  
 14447 kHz, 05-02, 0823 UTC, MFSK-6  
 16103 kHz, 05-02, 0934 UTC, MFSK-6  
 16219 kHz, 06-02, 0908 UTC, MFSK-6  
 14824 kHz, 06-02, 1027 UTC, MFSK-6  
 14824 kHz, 06-02, 1036 UTC, MFSK-6  
 18735 kHz, 06-02, 0919 UTC, MFSK-66  
 16219 kHz, 06-02, 0915 UTC, MFSK-6  
 15810 kHz, 08-02, 1032 UTC, MFSK-6  
 15810 kHz, 08-02, 1037 UTC, MFSK-6  
 17475 kHz, 09-02, 0826 UTC, MFSK-6  
 14861 kHz, 10-02, 0802 UTC, MFSK-6  
 11545 kHz, 10-02, 0811 UTC, MFSK-6  
 10814 kHz, 11-02, 0826 UTC, MFSK-6  
 16153 kHz, 12-02, 0803 UTC, MFSK-6  
 10429 kHz, 13-02, 0837 UTC, MFSK-66  
 10431 kHz, 13-02, 0909 UTC, MFSK-66  
 17456 kHz, 13-02, 1103 UTC, MFSK-6  
 13460 kHz, 16-02, 1028 UTC, MFSK-6  
 16115 kHz, 18-02, 1059 UTC, MFSK-6  
 16060 kHz, 22-02, 0929 UTC, MFSK-6  
 15810 kHz, 22-02, 1048 UTC, MFSK-6  
 14414 kHz, 22-02, 1053 UTC, MFSK-6  
 11545 kHz, 24-02, 0755 UTC, MFSK-6  
 20813 kHz, 24-02, 1012 UTC, MFSK-6  
 20334 kHz, 25-02, 0741 UTC, MFSK-6  
 16153 kHz, 26-02, 0800 UTC, MFSK-6  
 10431 kHz, 27-02, 0919 UTC, MFSK-66  
 9357 kHz, 27-02, 0920 UTC, MFSK-66  
 10653 kHz, 27-02, 0925 UTC, MFSK-6

MFA Moscow clg 432516: Russian embassy Bern  
 MFA Moscow clg 325614: Russian embassy Nairobi  
 MFA Moscow clg 325614: Russian embassy Nairobi  
 MFA Moscow clg 162543: Russian embassy Nicosia  
 MFA Moscow clg 645321: Russian Consulate General Ho Chi Minh City  
 MFA Moscow clg 324615: Russian embassy Madrid  
 MFA Moscow clg 625413: Russian embassy Tel Aviv (off at 1034z)  
 MFA Moscow clg 625413: Russian embassy Tel Aviv (off at 1042z)  
 Russian diplo  
 MFA Moscow clg 324615: Russian embassy Madrid  
 MFA Moscow clg 145632: Russian embassy Algiers  
 MFA Moscow clg 145632: Russian embassy Algiers  
 MFA Moscow clg 156234: Russian embassy Kampala  
 MFA Moscow clg 542136: Russian embassy Beijing  
 MFA Moscow clg 534216: Russian embassy Baghdad  
 MFA Moscow clg 412356: Russian embassy Budapest  
 MFA Moscow clg 153624: Russian embassy Damascus  
 Russian diplo  
 Russian diplo  
 MFA Moscow clg 216354: Russian Consulate General Chennai  
 MFA Moscow clg 165324: Russian embassy Vienna  
 MFA Moscow clg 215346: Russian Consulate General Mumbai  
 MFA Moscow clg 261453: Russian embassy Cairo  
 MFA Moscow clg 145632: Russian embassy Algiers  
 MFA Moscow clg 145632: Russian embassy Algiers  
 MFA Moscow clg 534216: Russian embassy Baghdad  
 MFA Moscow clg 216354: Russian Consulate General Chennai  
 MFA Moscow clg 164253: Russian embassy Addis Ababa  
 MFA Moscow clg 153624: Russian embassy Damascus  
 Russian diplo  
 Russian diplo  
 MFA Moscow clg 356412: Russian embassy Berlin

## Diplomatic stations: Tunisia

19675.0 kHz, 26-02, 0834 UTC, Mil-STD-188-141A STAT155: MFA Tunis sounding  
 19675.0 kHz, 26-02, 0837 UTC, Mil-STD-188-141A STAT17: UNID Tunisian diplomatic network  
 23540.0 kHz, 26.02, 0838 UTC, Mil-STD-188-141A STAT24: Tunisian embassy Rome sounding

## Diplomatic stations: U.S.A.

Logged by AB, Sam, Hiram

8058.6 kHz, 09-02, 1420 UTC, Mil-STD-188-141A  
8058.6 kHz, 09-02, 1420 UTC, Mil-STD-188-141A  
16283.6 kHz, 18-02, 1124 UTC, Mil-STD-188-141A  
11168.6 kHz, 18-02, 1124 UTC, Mil-STD-188-141A  
10733.6 kHz, 18-02, 1135 UTC, Mil-STD-188-141A  
11168.6 kHz, 18-02, 1136 UTC, Mil-STD-188-141A  
10733.6 kHz, 18-02, 1136 UTC, Mil-STD-188-141A  
13503.6 kHz, 18-02, 1138 UTC, Mil-STD-188-141A  
20810.6 kHz, 18-02, 1138 UTC, Mil-STD-188-141A  
11168.6 kHz, 18-02, 1146 UTC, Mil-STD-188-141A  
11168.6 kHz, 18-02, 1146 UTC, Mil-STD-188-141A  
18248.6 kHz, 18-02, 1146 UTC, Mil-STD-188-141A  
24883.6 kHz, 18-02, 1147 UTC, Mil-STD-188-141A  
18248.6 kHz, 18-02, 1149 UTC, Mil-STD-188-141A  
20810.6 kHz, 18-02, 1151 UTC, Mil-STD-188-141A  
24883.6 kHz, 18-02, 1151 UTC, Mil-STD-188-141A  
16283.6 kHz, 18-02, 1357 UTC, Mil-STD-188-141A  
13503.6 kHz, 18-02, 1407 UTC, Mil-STD-188-141A  
11168.6 kHz, 18-02, 1445 UTC, Mil-STD-188-141A  
20810.6 kHz, 23-02, 0740 UTC, Mil-STD-188-141A  
13503.6 kHz, 23-02, 0740 UTC, Mil-STD-188-141A  
10733.6 kHz, 23-02, 0741 UTC, Mil-STD-188-141A  
11168.6 kHz, 23-02, 0827 UTC, Mil-STD-188-141A  
24883.6 kHz, 23-02, 0846 UTC, Mil-STD-188-141A  
16283.6 kHz, 23-02, 0851 UTC, Mil-STD-188-141A  
16283.6 kHz, 23-02, 0852 UTC, Mil-STD-188-141A  
20810.6 kHz, 23-02, 0903 UTC, Mil-STD-188-141A  
18248.6 kHz, 23-02, 0904 UTC, Mil-STD-188-141A  
11168.6 kHz, 23-02, 1011 UTC, Mil-STD-188-141A  
24883.6 kHz, 23-02, 1014 UTC, Mil-STD-188-141A  
24883.6 kHz, 23-02, 1018 UTC, Mil-STD-188-141A  
20810.6 kHz, 23-02, 1018 UTC, Mil-STD-188-141A  
18248.6 kHz, 23-02, 1018 UTC, Mil-STD-188-141A  
20810.6 kHz, 23-02, 1029 UTC, Mil-STD-188-141A  
18248.6 kHz, 23-02, 1029 UTC, Mil-STD-188-141A  
16283.6 kHz, 23-02, 1029 UTC, Mil-STD-188-141A  
11168.6 kHz, 23-02, 1030 UTC, Mil-STD-188-141A  
8058.6 kHz, 23-02, 1044 UTC, Mil-STD-188-141A  
10733.6 kHz, 23-02, 1045 UTC, Mil-STD-188-141A  
20810.6 kHz, 23-02, 1046 UTC, Mil-STD-188-141A  
13503.6 kHz, 23-02, 1046 UTC, Mil-STD-188-141A  
11168.6 kHz, 23-02, 1046 UTC, Mil-STD-188-141A  
11168.6 kHz, 23-02, 1047 UTC, Mil-STD-188-141A  
20810.6 kHz, 23-02, 1049 UTC, Mil-STD-188-141A  
18248.6 kHz, 23-02, 1049 UTC, Mil-STD-188-141A  
13503.6 kHz, 23-02, 1049 UTC, Mil-STD-188-141A  
11168.6 kHz, 23-02, 1050 UTC, Mil-STD-188-141A  
11168.6 kHz, 23-02, 1052 UTC, Mil-STD-188-141A  
11168.6 kHz, 23-02, 1056 UTC, Mil-STD-188-141A  
11168.6 kHz, 23-02, 1215 UTC, Mil-STD-188-141A  
10733.6 kHz, 23-02, 1215 UTC, Mil-STD-188-141A  
  
8058.6 kHz, 23-02, 1216 UTC, Mil-STD-188-141A  
8058.6 kHz, 25-02, 0832 UTC, Mil-STD-188-141A  
8058.6 kHz, 25-02, 1152 UTC, Mil-STD-188-141A  
KWT91: US embassy Berlin clg KWB48: RIMC, Frankfurt am Main  
KWB48: RIMC, Frankfurt am Main clg KWT91: US embassy Berlin  
KWT97: US Consulate General Munich clg KWT93: US Consulate Frankfurt  
KWP97: US embassy Algiers clg KWT93: US Consulate Frankfurt  
KWT93: US Consulate Frankfurt clg KWT97: US Consulate General Munich  
KWT93: US Consulate Frankfurt clg KWT97A: US Consulate General Munich  
KWT93: US Consulate Frankfurt clg KWT97A: US Consulate General Munich  
KWP97: US embassy Algiers clg KWT93: US Consulate Frankfurt  
KVX53: US embassy Vilnius clg KWW25: US Embassy Oslo  
KWT93: US embassy Vilnius clg KWP97: US embassy Algiers  
KWP97: US embassy Algiers clg KWP95  
KWP97: US embassy Algiers clg KWP95  
KWP97: US embassy Algiers clg KWP95  
KWP95: Unid DoS station clg KWP97: US embassy Algiers  
KWP97: US embassy Algiers clg KWP98: US embassy Tunis  
KWP97: US embassy Algiers clg KWP98: US embassy Tunis  
KXV46: Unid DoS station clg KWT94: US embassy Paris  
KXV46: Unid DoS station clg KWT94: US embassy Paris  
KXV46: Unid DoS station clg KWT94: US embassy Paris  
KVX55: US embassy Tallinn clg KWU47: US embassy Kiev  
KWU47: US embassy Kiev Sounding  
KWU47: US embassy Kiev Call ACK to KVX50: US embassy Moskva  
KWT50: US embassy Den Haag clg KWX93: US embassy Reykjavik  
KWI26: US embassy Bangui clg KSN21: US embassy Yaounde  
KWI26: US embassy Bangui clg KMN93: DoS Springfield  
KSN21: US embassy Yaounde clg KWI26: US embassy Bangui  
KSN21: US embassy Yaounde Sounding  
KWI26: US embassy Bangui call ack to KSN21: US embassy Yaounde  
KWB48: RIMC Frankfurt clg KVX55: US embassy Tallinn  
KVX55: US embassy Tallinn Call ACK to KWB48: RIMC Frankfurt  
KVX55: US embassy Tallinn clg KWU47: US embassy Kiev  
KVX55: US embassy Tallinn clg KWU47: US embassy Kiev  
KVX55: US embassy Tallinn Sounding  
KVX55: US embassy Tallinn clg KWQ36: US embassy Stockholm  
KVX55: US embassy Tallinn clg KWQ36: US embassy Stockholm  
KVX55: US embassy Tallinn clg KWQ36: US embassy Stockholm  
KVX55: US embassy Tallinn Sounding  
KWQ36: US embassy Stockholm clg KVX55: US embassy Tallinn  
KWQ36: US embassy Stockholm clg KVX55: US embassy Tallinn  
KVX55: US embassy Tallinn Call ACK to KWW25: US embassy Oslo  
KWQ36: US embassy Stockholm clg KVX55: US embassy Tallinn  
KWQ36: US embassy Stockholm clg KVX55: US embassy Tallinn  
KVX55: US embassy Tallinn Call ACK to KWW25: US embassy Oslo  
KVX55: US embassy Tallinn clg KVX54: US embassy Riga  
KVX54: US embassy Riga Call ACK to KVX56: US embassy Helsinki  
KVX55: US embassy Tallin Call EST to KVX56: US embassy Helsinki  
KVX55: US embassy Tallin  
KVX53: US embassy Vilnius Sounding  
KVX55: US embassy Tallin  
KWT98: US embassy Bern clg KWA  
KWA37: US Permanent Mission to the UN, Geneva Call ACK to KWT98: US embassy Bern  
KWT98: US embassy Bern clg KWA37: US Permanent Mission to the UN, Geneva  
KWT50: US embassy The Hague sounding  
KWT95: US embassy Luxembourg clg KWB48: RIMC Frankfurt





## SPECIAL PURPOSE RADIO STATIONS

### Russian net related to the war in Ukraine. Assumed PSYOP net.

|                           |                                                                                                                                   |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 4141 kHz, 01-02, 1530 UTC | Russian song. Loop broadcast                                                                                                      |
| 8071 kHz, 01-02, 1530 UTC | Russian song. Loop broadcast                                                                                                      |
| 4141 kHz, 01-02, 1615 UTC | Pip at 1755z followed by the song. Off at 2007z                                                                                   |
| 8071 kHz, 01-02, 1614 UTC | Pip at 1755z followed by the song. Off at 2007z                                                                                   |
| 4141 kHz, 02-02, 1730 UTC | Russian song. Loop broadcast                                                                                                      |
| 8071 kHz, 02-02, 1730 UTC | Russian song. Loop broadcast                                                                                                      |
| 6911 kHz, 02-02, 1827 UTC | Popular version of Russia's National Anthem                                                                                       |
| 4141 kHz, 06-02, 1719 UTC | Russian song. Loop broadcast                                                                                                      |
| 8071 kHz, 06-02, 1719 UTC | Russian song. Loop broadcast                                                                                                      |
| 4141 kHz, 08-02, 1535 UTC | Pip till 1653z, at 1654z Russian song loop broadcast till 1755z. Pip from 1757z till 0423z. At 0424z (09-02) the same loop again. |
| 8071 kHz, 08-02, 1535 UTC | Pip till 1653z, at 1654z Russian song loop broadcast till 1755z. Pip from 1757z till 0423z. At 0424z (09-02) the same loop again. |

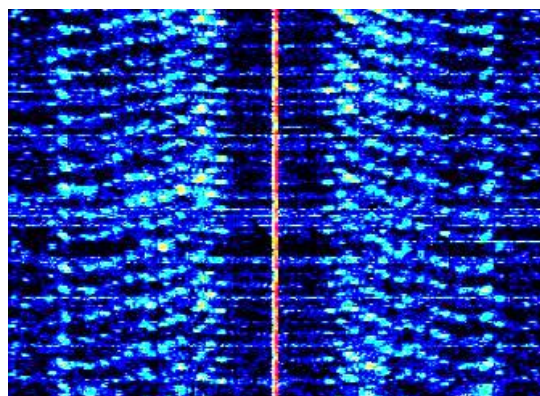
**Note:** 8071 kHz usually broadcast the song *Mgnovenija* from "Joseph Kobzon" (Иосиф Давидович Кобзон). This was the main theme song of the Soviet spy serial *Semnadtsat mgnoveniy vesny* (Seventeen Moments of Spring) while 4141 broadcasts possibly a song from "Mark Bernes" (Марк Наумович Бернэс). When the pip is transmitted, it's simulcast on both 8071 & 4141 but not with 3756 kHz. TDoA considers the transmitter of 8071 USB between the Black Sea and the Caspian Sea. (info: linkz)

|                                 |                                                                          |
|---------------------------------|--------------------------------------------------------------------------|
| 6828 kHz, 11-02, 0600 UTC       | Popular version of Russia's national anthem //6911, 7546, 7649, 9310 kHz |
| 4141 kHz, 12-02, 1730 UTC       | Pip                                                                      |
| 4152 kHz, 12-02, 1730 UTC       | Similar music as on 4141 and 8071 kHz                                    |
| 6250 kHz, 12-02, 1750 UTC       | Russian patriotic music                                                  |
| 5260 kHz, 12-02, 1750 UTC       | Russian patriotic music                                                  |
| 4141 kHz, 13-02, 1718 UTC       | Pip                                                                      |
| 4152 kHz, 13-02, 1718 UTC       | Russian music                                                            |
| 6828 kHz, 13-02, 1825 UTC       | Popular version of Russia's national anthem //6911, 7649, 9310 kHz       |
| 4141 kHz, 15-02, 1919 UTC       | Pip                                                                      |
| 6911 kHz, 16-02, 1640 UTC       | Air raid siren                                                           |
| 4141 kHz, 16-02, 1640 UTC       | Pip                                                                      |
| 6828 kHz, 16-02, 1640 UTC       | Russian music. Different loop transmissions on four channels.            |
| 7546 kHz, 16-02, 1640 UTC       | Russian music. Different loop transmissions on four channels.            |
| 7649 kHz, 16-02, 1640 UTC       | Russian music. Different loop transmissions on four channels.            |
| 9310 kHz, 16-02, 1640 UTC       | Russian music. Different loop transmissions on four channels.            |
| 6828 kHz, 18-02, 0600 UTC       | Popular version of Russia's national anthem //6911, 7546, 7649, 9310 kHz |
| 6828 kHz, 18-02, 1758 UTC       | Popular version of Russia's national anthem //6911, 7546, 7649, 9310 kHz |
| 4141 kHz, 18-02, 1815 UTC       | Pip                                                                      |
| 4141 kHz, 25-02, 1715 UTC       | Pip                                                                      |
| 5260 kHz, 25-02, 1715 UTC       | Russian song. Different loop transmissions on both channels.             |
| 6250 kHz, 25-02, 1715 UTC       | Russian song. Different loop transmissions on both channels.             |
| 6250 kHz, 25-02, 2123 UTC       | Russian song. Different loop transmissions on both channels.             |
| 5260 kHz, 25-02, 2123 UTC       | Russian song. Different loop transmissions on both channels.             |
| 6250 kHz, 26-02, 1736 UTC       | Russian song. Different loop transmissions on both channels.             |
| 5260 kHz, 26-02, 1736 UTC       | Russian song. Different loop transmissions on both channels.             |
| 4141 kHz, 26-02, 1736 UTC       | Pip                                                                      |
| 6250 kHz, 28-02, 1814 UTC       | Russian song. Different loop transmissions on both channels.             |
| 5260 kHz, 28-02, 1814 UTC       | Russian song. Different loop transmissions on both channels.             |
| 4141 kHz, 28-02, 1814 UTC       | Pip                                                                      |
| 14122 kHz, 11-02, 0851 UTC, USB | Radio war. Anti Russia transmission                                      |
| 7055 kHz, 12-02, 1505 UTC, LSB  | Radio war: music                                                         |
| 7055 kHz, 12-02, 1723 UTC, LSB  | Radio war: derogatory anti-Russia text                                   |
| 7055 kHz, 26-02, 1649 UTC, LSB  | Radio war: anti Putin and Russia song                                    |
| 10465 kHz, 27-02, 1415 UTC, USB | Russian pop songs                                                        |

4625 kHz, 02-02, 1740 UTC Pirate station trolling the Buzzer

7500 kHz, 01-02, 1629 UTC Radio Farda jammed by Iran  
12005 kHz, 03-02, 1710 UTC Radio Farda jammed by Iran  
7520 kHz, 06-02, 1720 UTC Radio Farda jammed by Iran  
12005 kHz, 06-02, 1720 UTC Radio Farda jammed by Iran  
13755 kHz, 09-02, 1445 UTC Radio Farda jammed by Iran  
7490 kHz, 10-02, 1500 UTC Radio Farda jammed by Iran  
7495 kHz, 23-02, 1700 UTC Radio Farda jammed by Iran

Picture: Iranian jammer

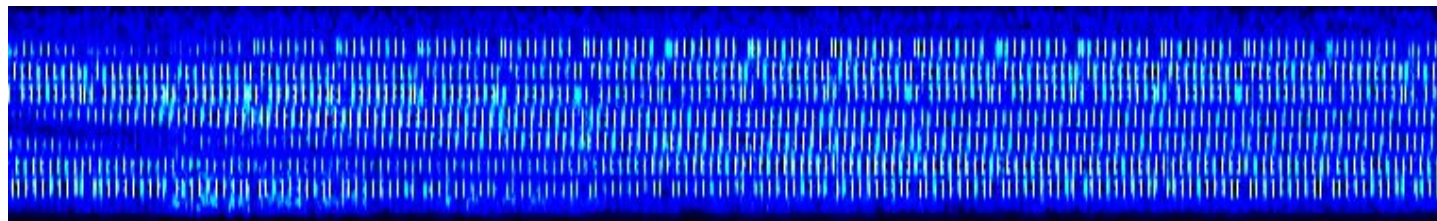


## UTILITY ROUND-UP

### Unid station. MFSK-7

9921 kHz, 17-02, 1637 UTC

6776 kHz, 18-02, 1800-1909, 1918-1926, 1927-1927, 1930-1931, 1933-1934 UTC.



### UV01, temporary designator for this unid station. Possibly Bulgarian military

All logged by Subilo. Information about this station is very welcome.

4415.4 kHz, 01-02, 0628 UTC. Female operator  
4415.4 kHz, 02-02, 0625 UTC. Female operator  
4415.4 kHz, 03-02, 0625 UTC. Male operator  
4415.4 kHz, 04-02, 0625 UTC. Male operator  
4415.4 kHz, 05-02, 0625 UTC. Female operator  
4415.4 kHz, 06-02, 0625 UTC. Male operator  
4415.4 kHz, 07-02, 0625 UTC. Not monitored  
4415.4 kHz, 07-02, 1555 UTC. Male operator  
4415.4 kHz, 08-02, 0625 UTC. Male operator  
4415.4 kHz, 09-02, 0625 UTC. Male operator  
4415.4 kHz, 09-02, 1553 UTC. Male operator  
4415.4 kHz, 10-02, 0625 UTC. Male operator. Very loud background conversation  
4415.4 kHz, 12-02, 0625 UTC. Male operator  
4415.4 kHz, 12-02, 1555 UTC. Male operator  
4415.4 kHz, 13-02, 0624 UTC. Male operator  
4415.4 kHz, 14-02, 0624 UTC. Male operator. Very loud background conversation  
4415.4 kHz, 14-02, 1555 UTC. Male operator  
4415.4 kHz, 15-02, 0625 UTC. Male operator  
4415.4 kHz, 15-02, 1554 UTC. Male operator  
4415.4 kHz, 16-02, 0626 UTC. Male operator. The operator speaks somewhat frantically, probably because of the late start.  
Background conversation  
4415.4 kHz, 16-02, 1555 UTC. Male operator  
4415.4 kHz, 17-02, 0625 UTC. Female operator  
4415.4 kHz, 17-02, 1553 UTC. Male operator  
4415.4 kHz, 18-02, 0624 UTC. Male operator. The man has the microphone too close to his mouth. His exhaling is clearly audible when he speaks. This greatly disrupts the message.  
4415.4 kHz, 18-02, 1554 UTC. Male operator  
4415.4 kHz, 19-02, 0625 UTC. Male operator  
4415.4 kHz, 19-02, 0633 UTC. Male operator. A new message



4415.4 kHz, 19-02, 1555 UTC. Female operator  
 4415.4 kHz, 20-02, 0625 UTC. Female operator. In the replay of the message, she clearly says the word "Symptoma". Another voice in the background  
 4415.4 kHz, 20-02, 1555 UTC. Male operator  
 4415.4 kHz, 21-02, 0625 UTC. Female operator  
 4415.4 kHz, 21-02, 1555 UTC. Male operator  
 4415.4 kHz, 22-02, 0625 UTC. Male operator  
 4415.4 kHz, 22-02, 1556 UTC. Male operator  
 4415.4 kHz, 23-02, 0625 UTC. Male operator. Background conversation audible  
 4415.4 kHz, 23-02, 1555 UTC. Female operator  
 4415.4 kHz, 24-02, 0625 UTC. Male operator. Rapid speaking operator. Background conversations  
 4415.4 kHz, 24-02, 1555 UTC. Male operator  
 4415.4 kHz, 25-02, 0629 UTC. Male operator. Operator speaks very frantically. Background conversations  
 4415.4 kHz, 25-02, 1555 UTC. Male operator  
 4415.4 kHz, 26-02, 0625 UTC. Male operator  
 4415.4 kHz, 26-02, 0642 UTC. Male operator  
 4415.4 kHz, 26-02, 1555 UTC. Male operator  
 4415.4 kHz, 27-02, 0625 UTC. Male operator. Background noises  
 4415.4 kHz, 27-02, 0634 UTC. Female operator. Operator has the microphone too close to her mouth. Her exhaling is clearly audible when she speaks  
 4415.4 kHz, 27-02, 1555 UTC. Female operator  
 4415.4 kHz, 28-02, 0625 UTC. Not monitored  
 4415.4 kHz, 28-02, 1555 UTC. Male operator



## RUSSIAN MILITARY

Thanks to Kjell for the RIT T600 and CW schedules.

RIT uses 10 sets of three-frequency T600 simulcasts for their shore to ship broadcasts:

- A 4855 // 5448 // 6199
- B 4384 // 5203 // 6458
- C 4807 // 5838 // 6319
- D 4973 // 5861 // 6827
- E 4039 // 5753 // 6416
- F 4104 // 5885 // 6142
- G 4425 // 5378 // 6973
- H 4517 // 5851 // 6346
- I 4433 // 5967 // 6877
- J 4465 // 5929 // 6948

The RIT CW broadcasts follows the same yearly schedule with 4-frequency simulcasts of:

- A 4039 // 5929 // 6973 // 7422
- B 4104 // 5885 // 6199 // 7476
- C 4384 // 5448 // 6827 // 7457
- D 4425 // 5378 // 6416 // 7325
- E 4433 // 5203 // 6948 // 7255
- F 4465 // 5851 // 6877 // 7283
- G 4517 // 5861 // 6142 // 7206
- H 4807 // 5753 // 6458 // 7602
- I 4855 // 5838 // 6346 // 7567
- J 4973 // 5967 // 6319 // 7954

The sets are used in a fixed yearly schedule in which frequencies are kept for anything from a day up to two weeks. The schedule uses strict dates/time when they switch to new frequency sets. Unfortunately exact times are not well documented.

The naval bases of the Northern Fleet follows the same yearly schedule but with different frequencies.

## ***Monolith stations***

### **Channel markers**

3756 kHz, 08-02, 1535 UTC    Pip channel marker //3363.5//4141//8071 kHz. See also Special Purpose Radio Stations  
3363.5 kHz, 08-02, 1535 UTC    Pip channel marker //3756//4141//8071 kHz. See also Special Purpose Radio Stations  
4325 kHz, 08-02, 1540 UTC    Dash channel marker  
4625 kHz, 08-02, 1540 UTC    Buzzer channel marker

## ***Morse transmissions***

### **Russian Military morse traffic**

#### **Buzzer CW channel 7980.3 kHz, 11-02, 1320-1334 UTC**

XXX XXX NVTI NVTI 97524 06987 95841 12884 PLEKSIGLAS 2555 7094  
XXX XXX NVTI NVTI 97524 06987 95841 12884 PLEKSIGLAS 2555 7094 K  
XXX XXX NVTI NVTI 26323 ZALPOFIRN 0010 6369 POLXZOWANIE 7625 8531  
XXX XXX NVTI NVTI 26323 ZALPOFIRN 0010 6369 POLXZOWANIE 7625 8531 K  
XXX XXX CVAP CVAP 80145 TRUTOhUT 0100 5125 PANKOZWUK 9142 3013

#### **14411 kHz, 09-02, 1035 UTC**

RDL RDL RDL 18978 38102 18978 38102 18978 38102 K

#### **17452 kHz, 21-02, 1025 UTC**

RDL RDL RDL 81946 00357 81946 00357 81946 00357 K

### **Russian Navy morse traffic**

#### **8191 kHz, 13-02, 0740 UTC**

REO REO REO RMP RMP QTC 826 23 13 1034 826 =  
47476 88358 15114 96202 62753 55326 38356 95426 07297 55432  
48893 52937 10321 81318 04144 98348 92470 41365 38661 74171  
61601 34346 13022 AR

#### **6494.5 kHz, 27-02, 1920 UTC, i.p.**

= FOR RCD88 RMD97 RJH82 =  
27181 99548 10196 44697 32005 10050 50140 51000 70100 83111 22282 00040 20501 27013 =  
AR RMFE K

RMFE OK QRU K

### **Russian Air Force morse traffic**

8821 kHz, 17-02, 1300 UTC Availability marker S (R5m)  
8821 kHz, 17-02, 1330 UTC Availability marker S (R5m)  
8821 kHz, 17-02, 1400 UTC Availability marker S (R5m)  
8821 kHz, 17-02, 1430 UTC Availability marker S (R5m)  
8821 kHz, 17-02, 1500 UTC Availability marker S (R5m)



## CONTRIBUTORS

|        |                                         |
|--------|-----------------------------------------|
| AB     | Ary Boender, Netherlands                |
| AB-BER | Ary Boender via remote rx Bermuda       |
| AB-F   | Ary Boender via remote rx France        |
| AB-GRC | Ary Boender via remote rx Greece        |
| AB-HNG | Ary Boender via remote rx Hungary       |
| AB-ISL | Ary Boender via remote rx Iceland       |
| AB-J   | Ary Boender via remote rx Japan         |
| AB-POL | Ary Boender via remote rx Poland        |
| AB-S   | Ary Boender via remote rx Sweden        |
| Dan    | Daniel LU5EMM, Argentina                |
| EW     | Eddy Waters, Australia                  |
| Hiram  | Hiram, W. Europe                        |
| HK     | Hiroyuki Komatsubara, Japan             |
| JBj    | Johan Bjerke, Sweden                    |
| JPL    | JPL, NB, Canada (and various remote rx) |
| Lac    | Lazycrypt                               |
| linkz  | Linkz, S.E. France                      |
| Moon   | Moonlight (Dave AU)                     |
| PY     | Pierre Ynard, France and via remote rx  |
| RL     | Roberto Landolpho, Brazil               |
| RO     | Rando One, Sweden                       |
| Sam    | Sam                                     |
| Subilo | Subilo                                  |



## LOGBOOK

| Code | Date | UTC  | Freq  | day | Details                                                         | Mode      | Contributor |
|------|------|------|-------|-----|-----------------------------------------------------------------|-----------|-------------|
| ---  | 17-2 | 1637 | 9921  | Tue | Unid                                                            | MFSK-7    | (AB)        |
| ---  | 18-2 | 1800 | 6776  | Wed | Unid                                                            | MFSK-7    | (AB)        |
| BUL  | 3-2  | 0924 | 14755 | Tue | Bulgarian diplo                                                 | RFSM-8000 | (AB)        |
| BUL  | 3-2  | 1332 | 17440 | Tue | Bulgarian diplo                                                 | RFSM-8000 | (AB)        |
| BUL  | 3-2  | 1356 | 18455 | Tue | Bulgarian diplo                                                 | RFSM-8000 | (AB)        |
| BUL  | 6-2  | 0923 | 14755 | Fri | Bulgarian diplo                                                 | RFSM-8000 | (AB)        |
| BUL  | 6-2  | 1322 | 17440 | Fri | Bulgarian diplo                                                 | RFSM-8000 | (AB)        |
| BUL  | 6-2  | 1358 | 18455 | Fri | Bulgarian diplo                                                 | RFSM-8000 | (AB)        |
| BUL  | 11-2 | 0858 | 14755 | Wed | Bulgarian diplo                                                 | RFSM-8000 | (AB)        |
| BUL  | 11-2 | 1314 | 17440 | Wed | Bulgarian diplo                                                 | RFSM-8000 | (AB)        |
| BUL  | 11-2 | 1400 | 18455 | Wed | Bulgarian diplo                                                 | RFSM-8000 | (AB)        |
| BUL  | 12-2 | 0921 | 14755 | Thu | Bulgarian diplo                                                 | RFSM-8000 | (AB)        |
| BUL  | 12-2 | 1321 | 17440 | Thu | Bulgarian diplo                                                 | RFSM-8000 | (AB)        |
| BUL  | 12-2 | 1400 | 18455 | Thu | Bulgarian diplo                                                 | RFSM-8000 | (AB)        |
| BUL  | 13-2 | 0924 | 14755 | Fri | Bulgarian diplo                                                 | RFSM-8000 | (AB)        |
| BUL  | 13-2 | 1356 | 18455 | Fri | Bulgarian diplo                                                 | RFSM-8000 | (AB)        |
| BUL  | 18-2 | 1200 | 14755 | Wed | Bulgarian diplo                                                 | RFSM-8000 | (AB)        |
| BUL  | 18-2 | 1322 | 17440 | Wed | Bulgarian diplo                                                 | RFSM-8000 | (AB)        |
| BUL  | 18-2 | 1323 | 13364 | Wed | Bulgarian diplo                                                 | RFSM-8000 | (AB)        |
| BUL  | 18-2 | 1358 | 18455 | Wed | Bulgarian diplo                                                 | RFSM-8000 | (AB)        |
| BUL  | 26-2 | 0919 | 14755 | Thu | Bulgarian diplo                                                 | RFSM-8000 | (AB)        |
| BUL  | 26-2 | 1321 | 13365 | Thu | Bulgarian diplo                                                 | RFSM-8000 | (AB)        |
| BUL  | 26-2 | 1321 | 17440 | Thu | Bulgarian diplo                                                 | RFSM-8000 | (AB)        |
| BUL  | 27-2 | 0822 | 9375  | Fri | Bulgarian diplo                                                 | RFSM-8000 | (AB)        |
| BUL  | 27-2 | 0923 | 14755 | Fri | Bulgarian diplo                                                 | RFSM-8000 | (AB)        |
| BUL  | 27-2 | 1321 | 17440 | Fri | Bulgarian diplo                                                 | RFSM-8000 | (AB)        |
| BUL  | 27-2 | 1355 | 18455 | Fri | Bulgarian diplo                                                 | RFSM-8000 | (AB)        |
| E06  | 1-2  | 0730 | 12107 | Sun | 480 726 31 63193 49834 18378 ... 69160 95140 23962 726 31 00000 | USB       | (AB/PY/Lac) |
| E06  | 1-2  | 0800 | 9481  | Sun | 480 726 31 63193 49834 18378 ... 69160 95140 23962 726 31 00000 | USB       | (AB/PY/Lac) |
| E06  | 7-2  | 1600 | 9951  | Sat | Not heard                                                       | USB       | (AB)        |

|     |      |      |       |     |                                                                                       |     |          |
|-----|------|------|-------|-----|---------------------------------------------------------------------------------------|-----|----------|
| E06 | 7-2  | 1630 | 6792  | Sat | 480 765 44 46367 58721 08736 ... 47865 30562 26847 765 44 00000                       | USB | (AB)     |
| E06 | 8-2  | 0730 | 12107 | Sun | 480 765 44 46367 58721 08736 ... 47865 30562 26847 765 44 00000                       | USB | (AB)     |
| E06 | 8-2  | 0800 | 9481  | Sun | 480 765 44 46367 58721 08736 ... 47865 30562 26847 765 44 00000                       | USB | (AB)     |
| E06 | 14-2 | 1600 | 9951  | Sat | 480 357 46 47830 18363 49627 ... 62314 64823 61537 357 46 00000 Restart during callup | USB | (AB/Lac) |
| E06 | 14-2 | 1630 | 6792  | Sat | 480 357 46 47830 18363 49627 ... 62314 64823 61537 357 46 00000                       | USB | (AB/Lac) |
| E06 | 15-2 | 0730 | 12107 | Sun | 480 357 46 47830 18363 49627 ... 62314 64823 61537 357 46 00000                       | USB | (AB/Lac) |
| E06 | 15-2 | 0800 | 9481  | Sun | 480 357 46 47830 18363 49627 ... 62314 64823 61537 357 46 00000                       | USB | (AB/Lac) |
| E06 | 21-2 | 1600 | 9951  | Sat | 480 375 44 03642 71346 27625 ... 41361 54764 28549 375 44 00000                       | USB | (AB/Lac) |
| E06 | 21-2 | 1630 | 6792  | Sat | 480 375 44 03642 71346 27625 ... 41361 54764 28549 375 44 00000                       | USB | (AB/Lac) |
| E06 | 22-2 | 0730 | 12107 | Sun | 480 375 44 03642 71346 27625 ... 41361 54764 28549 375 44 00000                       | USB | (AB/Lac) |
| E06 | 22-2 | 0800 | 9481  | Sun | 480 375 44 03642 71346 27625 ... 41361 54764 28549 375 44 00000                       | USB | (AB)     |
| E06 | 28-2 | 1600 | 9951  | Sat | 480 937 45 13576 13561 24641 ... 43961 05918 86701 937 45 00000                       | USB | (AB/Lac) |
| E06 | 28-2 | 1600 | 9551  | Sat | 480 937 45                                                                            | USB | (Lac)    |
| E06 | 28-2 | 1630 | 6792  | Sat | 480 937 45 13576 13561 24641 ... 43961 05918 86701 937 45 00000                       | USB | (AB)     |
| E07 | 3-2  | 1500 | 15858 | Tue | 841 841 841 1 765 175 765 175 81781 81418 63287 ... 33083 45803 13582 000 000         | USB | (AB/Lac) |
| E07 | 3-2  | 1520 | 14458 | Tue | 841 841 841 1 765 175 765 175 81781 81418 63287 ... 33083 45803 13582 000 000         | USB | (AB/Lac) |
| E07 | 3-2  | 1540 | 12158 | Tue | 841 841 841 1 765 175 765 175 81781 81418 63287 ... 33083 45803 13582 000 000         | USB | (AB/Lac) |
| E07 | 6-2  | 1500 | 15858 | Fri | 841 841 841 1 765 175 765 175 81781 81418 63287 ... 33083 45803 13582 000 000         | USB | (AB)     |
| E07 | 6-2  | 1520 | 14458 | Fri | 841 841 841 1 765 175 765 175 81781 81418 63287 ... 33083 45803 13582 000 000         | USB | (AB)     |
| E07 | 6-2  | 1540 | 12158 | Fri | 841 841 841 1 765 175 765 175 81781 81418 63287 ... 33083 45803 13582 000 000         | USB | (AB)     |
| E07 | 7-2  | 1000 | 18364 | Sat | 342 342 342 000                                                                       | USB | (AB)     |
| E07 | 7-2  | 1020 | 17451 | Sat | 342 342 342 000                                                                       | USB | (AB)     |
| E07 | 10-2 | 1500 | 15858 | Tue | 841 841 841 000                                                                       | USB | (AB/Lac) |
| E07 | 10-2 | 1520 | 14458 | Tue | 841 841 841 000                                                                       | USB | (AB)     |
| E07 | 12-2 | 1000 | 18364 | Thu | 342 342 342 1 9981 126 9981 126 29828 70644 68338 ... 37149 32608 52680 000 000       | USB | (AB/Lac) |
| E07 | 12-2 | 1020 | 17451 | Thu | 342 342 342 1 9981 126 9981 126 29828 70644 68338 ... 37149 32608 52680 000 000       | USB | (AB/Lac) |
| E07 | 12-2 | 1040 | 16243 | Thu | 342 342 342 1 9981 126 9981 126 29828 70644 68338 ... 37149 32608 52680 000 000       | USB | (AB/Lac) |
| E07 | 13-2 | 1500 | 15858 | Fri | 841 841 841 000                                                                       | USB | (AB)     |
| E07 | 13-2 | 1520 | 14458 | Fri | 841 841 841 000                                                                       | USB | (AB)     |
| E07 | 14-2 | 1000 | 18364 | Sat | 342 342 342 1 9981 126 9981 126 29828 70644 68338 ... 37149 32608 52680 000 000       | USB | (AB/Lac) |
| E07 | 14-2 | 1020 | 17451 | Sat | 342 342 342 1 9981 126 9981 126 29828 70644 68338 ... 37149 32608 52680 000 000       | USB | (AB/Lac) |
| E07 | 14-2 | 1040 | 16243 | Sat | 342 342 342 1 9981 126 9981 126 29828 70644 68338 ... 37149 32608 52680 000 000       | USB | (AB/Lac) |
| E07 | 17-2 | 1500 | 15858 | Tue | 841 841 841 1 953 99 953 99 84109 29673 30226 ... 46351 13685 98768 000 000           | USB | (AB/Lac) |
| E07 | 17-2 | 1520 | 14458 | Tue | 841 841 841 1 953 99 953 99 84109 29673 30226 ... 46351 13685 98768 000 000           | USB | (AB/Lac) |
| E07 | 17-2 | 1540 | 12158 | Tue | 841 841 841 1 953 99 953 99 84109 29673 30226 ... 46351 13685 98768 000 000           | USB | (AB/Lac) |
| E07 | 19-2 | 1000 | 18364 | Thu | 342 342 342 000                                                                       | USB | (AB/Lac) |
| E07 | 19-2 | 1020 | 17451 | Thu | 342 342 342 000                                                                       | USB | (AB/Lac) |
| E07 | 20-2 | 1500 | 15858 | Fri | 841 841 841 1 953 99 953 99 84109 29673 30226 ... 46351 13685 98768 000 000           | USB | (AB/Lac) |
| E07 | 20-2 | 1520 | 14458 | Fri | 841 841 841 1 953 99 953 99 84109 29673 30226 ... 46351 13685 98768 000 000           | USB | (AB/Lac) |
| E07 | 20-2 | 1540 | 12158 | Fri | 841 841 841 1 953 99 953 99 84109 29673 30226 ... 46351 13685 98768 000 000           | USB | (AB/Lac) |
| E07 | 21-2 | 1000 | 18364 | Sat | 342 342 342 000                                                                       | USB | (AB/Lac) |

|            |      |      |       |     |                                                                               |     |             |
|------------|------|------|-------|-----|-------------------------------------------------------------------------------|-----|-------------|
| <b>E07</b> | 21-2 | 1020 | 17451 | Sat | 342 342 342 000                                                               | USB | (AB/Lac)    |
| <b>E07</b> | 24-2 | 1500 | 15858 | Tue | 841 841 841 000                                                               | USB | (AB/Lac)    |
| <b>E07</b> | 24-2 | 1520 | 14458 | Tue | 841 841 841 000                                                               | USB | (AB/Lac)    |
| <b>E07</b> | 26-2 | 1000 | 18364 | Thu | 342 342 342 1 634 191 634 191 26961 58670 77301 ... 11997 44361 97872 000 000 | USB | (AB/Lac)    |
| <b>E07</b> | 26-2 | 1020 | 17451 | Thu | 342 342 342 1 634 191 634 191 26961 58670 77301 ... 11997 44361 97872 000 000 | USB | (AB/Lac)    |
| <b>E07</b> | 26-2 | 1040 | 16243 | Thu | 342 342 342 1 634 191 634 191 26961 58670 77301 ... 11997 44361 97872 000 000 | USB | (AB/Lac)    |
| <b>E07</b> | 27-2 | 1500 | 15858 | Fri | 841 841 841 000                                                               | USB | (AB)        |
| <b>E07</b> | 27-2 | 1520 | 14458 | Fri | 841 841 841 000                                                               | USB | (AB)        |
| <b>E07</b> | 28-2 | 1000 | 18364 | Sat | 342 342 342 1 634 191 634 191 26961 58670 77301 ... 11997 44361 97872 000 000 | USB | (AB/Lac)    |
| <b>E07</b> | 28-2 | 1020 | 17451 | Sat | 342 342 342 1 634 191 634 191 26961 58670 77301 ... 11997 44361 97872 000 000 | USB | (AB/Lac)    |
| <b>E07</b> | 28-2 | 1040 | 16243 | Sat | 342 342 342 1 634 191 634 191 26961 58670 77301 ... 11997 44361 97872 000 000 | USB | (AB/Lac)    |
| <b>E11</b> | 1-2  | 0700 | 5371  | Sun | 492/00 Out                                                                    | USB | (AB)        |
| <b>E11</b> | 1-2  | 1605 | 5432  | Sun | 237/00 Out                                                                    | USB | (AB)        |
| <b>E11</b> | 1-2  | 1745 | 12924 | Sun | 242/00 Out                                                                    | USB | (AB)        |
| <b>E11</b> | 1-2  | 1815 | 6849  | Sun | 927/00 Out                                                                    | USB | (AB)        |
| <b>E11</b> | 1-2  | 1910 | 10487 | Sun | 610/00 Out                                                                    | USB | (AB)        |
| <b>E11</b> | 1-2  | 2000 | 5082  | Sun | 525/00 Out                                                                    | USB | (AB)        |
| <b>E11</b> | 2-2  | 0315 | 8102  | Mon | 255/00 Out                                                                    | USB | (AB)        |
| <b>E11</b> | 2-2  | 0645 | 13911 | Mon | 412/00 Out                                                                    | USB | (AB/Lac)    |
| <b>E11</b> | 2-2  | 0645 | 12385 | Mon | 518/00 Out                                                                    | USB | (Lac)       |
| <b>E11</b> | 2-2  | 0715 | 20167 | Mon | 755/00 Out                                                                    | USB | (AB/Lac)    |
| <b>E11</b> | 2-2  | 0845 | 12067 | Mon | 710/00 Out                                                                    | USB | (AB)        |
| <b>E11</b> | 2-2  | 0900 | 15915 | Mon | 537/00 Out                                                                    | USB | (AB/Lac)    |
| <b>E11</b> | 2-2  | 1300 | 4909  | Mon | 313/00 Out                                                                    | USB | (AB-POL)    |
| <b>E11</b> | 2-2  | 1745 | 12924 | Mon | 245/00 Out                                                                    | USB | (AB/Lac)    |
| <b>E11</b> | 3-2  | 0505 | 12153 | Tue | 337/00 Out                                                                    | USB | (TM)        |
| <b>E11</b> | 3-2  | 0645 | 12385 | Tue | 518/00 Out                                                                    | USB | (AB/Subilo) |
| <b>E11</b> | 3-2  | 0700 | 6804  | Tue | 570/00 Out                                                                    | USB | (AB/Lac)    |
| <b>E11</b> | 3-2  | 0715 | 13911 | Tue | 636/00 Out                                                                    | USB | (AB/PY/Lac) |
| <b>E11</b> | 3-2  | 0745 | 23031 | Tue | 227/00 Out                                                                    | USB | (AB/PY/Lac) |
| <b>E11</b> | 3-2  | 1000 | 9079  | Tue | 300/00 Out                                                                    | USB | (AB/Lac)    |
| <b>E11</b> | 3-2  | 1205 | 11559 | Tue | 463/00 Out                                                                    | USB | (AB/Lac)    |
| <b>E11</b> | 3-2  | 1430 | 13363 | Tue | 914/00 Out                                                                    | USB | (AB/Lac)    |
| <b>E11</b> | 3-2  | 1605 | 5432  | Tue | 237/00 Out                                                                    | USB | (AB/Lac)    |
| <b>E11</b> | 4-2  | 0315 | 8102  | Wed | 253/00 Out                                                                    | USB | (TM)        |
| <b>E11</b> | 4-2  | 0645 | 13911 | Wed | 411/00 Out                                                                    | USB | (AB/PY/Lac) |
| <b>E11</b> | 4-2  | 0715 | 20167 | Wed | 752/00 Out                                                                    | USB | (AB/Lac)    |
| <b>E11</b> | 4-2  | 0745 | 17378 | Wed | 343/00 Out                                                                    | USB | (AB/Lac)    |
| <b>E11</b> | 4-2  | 0845 | 12067 | Wed | 710/00 Out                                                                    | USB | (AB/Lac)    |
| <b>E11</b> | 4-2  | 0900 | 15915 | Wed | 538/00 Out                                                                    | USB | (AB/Lac)    |
| <b>E11</b> | 4-2  | 0930 | 7469  | Wed | 278/00 Out                                                                    | USB | (AB/Lac)    |
| <b>E11</b> | 4-2  | 1205 | 11559 | Wed | 460/00 Out                                                                    | USB | (AB)        |

|     |      |      |       |     |                            |     |          |
|-----|------|------|-------|-----|----------------------------|-----|----------|
| E11 | 4-2  | 1715 | 5082  | Wed | 978/00 Out                 | USB | (AB)     |
| E11 | 5-2  | 0645 | 12385 | Thu | 514/00 Out                 | USB | (AB)     |
| E11 | 5-2  | 0720 | 8180  | Thu | 432/00 Out                 | USB | (AB)     |
| E11 | 5-2  | 0745 | 23031 | Thu | 223/00 Out                 | USB | (Lac)    |
| E11 | 5-2  | 0930 | 7469  | Thu | 271/00 Out                 | USB | (AB/Lac) |
| E11 | 5-2  | 1300 | 4909  | Thu | 315/00 Out                 | USB | (AB)     |
| E11 | 6-2  | 0700 | 6804  | Fri | 575/00 Out                 | USB | (AB)     |
| E11 | 6-2  | 0715 | 13911 | Fri | 635/00 Out                 | USB | (AB)     |
| E11 | 6-2  | 0720 | 8180  | Fri | 439/00 Out                 | USB | (AB)     |
| E11 | 6-2  | 0830 | 23353 | Fri | 188/00 Out                 | USB | (AB/Lac) |
| E11 | 6-2  | 1000 | 9079  | Fri | 309/00 Out                 | USB | (AB)     |
| E11 | 6-2  | 1020 | 17378 | Fri | 349/00 Out                 | USB | (AB)     |
| E11 | 6-2  | 1715 | 5082  | Fri | 976/00 Out                 | USB | (AB)     |
| E11 | 6-2  | 1815 | 6849  | Fri | 929/00 Out                 | USB | (AB)     |
| E11 | 6-2  | 1910 | 10487 | Fri | 617/00 Out                 | USB | (AB)     |
| E11 | 7-2  | 1430 | 13363 | Sat | 917/00 Out                 | USB | (AB)     |
| E11 | 7-2  | 1645 | 4909  | Sat | 363/00 Out                 | USB | (AB)     |
| E11 | 8-2  | 1605 | 5432  | Sun | 230/00 Out                 | USB | (AB)     |
| E11 | 8-2  | 1645 | 4909  | Sun | 360/00 Out                 | USB | (AB)     |
| E11 | 8-2  | 1745 | 12924 | Sun | 245/00 Out                 | USB | (AB)     |
| E11 | 8-2  | 1815 | 6849  | Sun | 924/00 Out                 | USB | (AB)     |
| E11 | 8-2  | 1910 | 10487 | Sun | 610/00 Out                 | USB | (AB)     |
| E11 | 8-2  | 2000 | 5082  | Sun | 528/00 Out                 | USB | (AB)     |
| E11 | 9-2  | 0315 | 8102  | Mon | 255/00 Out                 | USB | (AB)     |
| E11 | 9-2  | 0600 | 20286 | Mon | 944/00 Out                 | USB | (AB-POL) |
| E11 | 9-2  | 0645 | 13911 | Mon | 412/00 Out                 | USB | (PY)     |
| E11 | 9-2  | 0715 | 20167 | Mon | 750/00 Out                 | USB | (AB)     |
| E11 | 9-2  | 0745 | 10213 | Mon | 267/00 Out                 | USB | (AB)     |
| E11 | 9-2  | 0830 | 23353 | Mon | 181/00 Out                 | USB | (AB)     |
| E11 | 9-2  | 0845 | 12067 | Mon | 714/00 Out                 | USB | (AB)     |
| E11 | 9-2  | 0900 | 15915 | Mon | 536/00 Out                 | USB | (AB)     |
| E11 | 9-2  | 1045 | 14410 | Mon | 692/00 Out                 | USB | (AB)     |
| E11 | 9-2  | 1900 | 6849  | Mon | 640/00 Out                 | USB | (AB)     |
| E11 | 10-2 | 0700 | 6804  | Tue | 571/00 Out                 | USB | (AB)     |
| E11 | 10-2 | 0715 | 13911 | Tue | 639/00 Out                 | USB | (AB)     |
| E11 | 10-2 | 0845 | 17378 | Tue | Test tone. No transmission | USB | (Lac)    |
| E11 | 10-2 | 0930 | 14611 | Tue | 132/00 Out                 | USB | (AB)     |
| E11 | 10-2 | 1000 | 9079  | Tue | 307/00 Out                 | USB | (AB)     |
| E11 | 10-2 | 1205 | 11559 | Tue | 462/00 Out                 | USB | (AB/Lac) |
| E11 | 10-2 | 1430 | 13363 | Tue | 917/00 Out                 | USB | (AB/Lac) |
| E11 | 10-2 | 1605 | 5432  | Tue | 232/00 Out                 | USB | (AB/Lac) |
| E11 | 11-2 | 0315 | 8102  | Wed | 255/00 Out                 | USB | (AB)     |

|     |      |      |       |     |                            |     |          |
|-----|------|------|-------|-----|----------------------------|-----|----------|
| E11 | 11-2 | 0600 | 20286 | Wed | 946/00 Out                 | USB | (AB-POL) |
| E11 | 11-2 | 0645 | 13911 | Wed | 411/00 Out                 | USB | (AB)     |
| E11 | 11-2 | 0715 | 20167 | Wed | 755/00 Out                 | USB | (AB)     |
| E11 | 11-2 | 0745 | 17378 | Wed | 349/00 Out                 | USB | (AB/Lac) |
| E11 | 11-2 | 0820 | 14611 | Wed | 134/00 Out                 | USB | (AB)     |
| E11 | 11-2 | 0845 | 12067 | Wed | 716/00 Out                 | USB | (AB)     |
| E11 | 11-2 | 0900 | 15915 | Wed | 530/00 Out                 | USB | (AB)     |
| E11 | 11-2 | 0930 | 7469  | Wed | 270/00 Out                 | USB | (AB/Lac) |
| E11 | 11-2 | 1045 | 14410 | Wed | 690/00 Out                 | USB | (AB)     |
| E11 | 11-2 | 1205 | 11559 | Wed | 461/00 Out                 | USB | (AB)     |
| E11 | 11-2 | 1610 | 4505  | Wed | 393/00 Out                 | USB | (AB)     |
| E11 | 12-2 | 0720 | 8180  | Thu | 438/00 Out                 | USB | (AB/Lac) |
| E11 | 12-2 | 0845 | 17378 | Thu | 156/00 Out                 | USB | (AB/Lac) |
| E11 | 12-2 | 0930 | 7469  | Thu | 278/00 Out                 | USB | (AB/Lac) |
| E11 | 12-2 | 1530 | 5409  | Thu | 268/00 Out                 | USB | (AB)     |
| E11 | 12-2 | 1900 | 6849  | Thu | 646/00 Out                 | USB | (AB)     |
| E11 | 12-2 | 2000 | 5082  | Thu | 521/00 Out                 | USB | (AB)     |
| E11 | 13-2 | 0600 | 7850  | Fri | 352/00 Out                 | USB | (AB)     |
| E11 | 13-2 | 0700 | 6804  | Fri | Test tone. No transmission | USB | (AB/Lac) |
| E11 | 13-2 | 0715 | 13911 | Fri | 634/00 Out                 | USB | (AB/Lac) |
| E11 | 13-2 | 0720 | 8180  | Fri | 439/00 Out                 | USB | (AB)     |
| E11 | 13-2 | 0830 | 23353 | Fri | 182/00 Out                 | USB | (AB)     |
| E11 | 13-2 | 1000 | 9079  | Fri | 305/00 Out                 | USB | (AB/Lac) |
| E11 | 13-2 | 1020 | 17378 | Fri | 349/00 Out                 | USB | (AB/Lac) |
| E11 | 13-2 | 1910 | 10487 | Fri | 612/00 Out                 | USB | (AB)     |
| E11 | 14-2 | 0700 | 5371  | Sat | 492/00 Out                 | USB | (AB)     |
| E11 | 14-2 | 1430 | 13363 | Sat | 919/00 Out                 | USB | (AB/Lac) |
| E11 | 14-2 | 1610 | 4505  | Sat | 393/00 Out                 | USB | (AB/Lac) |
| E11 | 15-2 | 0600 | 7850  | Sun | 354/00 Out                 | USB | (AB)     |
| E11 | 15-2 | 0700 | 5371  | Sun | 498/00 Out                 | USB | (AB)     |
| E11 | 15-2 | 1605 | 5432  | Sun | 235/00 Out                 | USB | (AB/Lac) |
| E11 | 15-2 | 1745 | 12924 | Sun | 240/00 Out                 | USB | (AB/Lac) |
| E11 | 15-2 | 1910 | 10487 | Sun | 617/00 Out                 | USB | (AB/Lac) |
| E11 | 15-2 | 2000 | 5082  | Sun | 527/00 Out                 | USB | (AB/Lac) |
| E11 | 16-2 | 0315 | 8102  | Mon | 253/00 Out                 | USB | (TM)     |
| E11 | 16-2 | 0600 | 20286 | Mon | 944/00 Out                 | USB | (Lac)    |
| E11 | 16-2 | 0645 | 13911 | Mon | 418/00 Out                 | USB | (AB/Lac) |
| E11 | 16-2 | 0715 | 20167 | Mon | 750/00 Out                 | USB | (AB/Lac) |
| E11 | 16-2 | 0745 | 10213 | Mon | 267/00 Out                 | USB | (AB/Lac) |
| E11 | 16-2 | 0830 | 23353 | Mon | 188/00 Out                 | USB | (AB/Lac) |
| E11 | 16-2 | 0845 | 12067 | Mon | 719/00 Out                 | USB | (AB/Lac) |
| E11 | 16-2 | 0900 | 15915 | Mon | 534/00 Out                 | USB | (AB/Lac) |



|     |      |      |       |     |            |     |              |
|-----|------|------|-------|-----|------------|-----|--------------|
| E11 | 16-2 | 1045 | 14410 | Mon | 696/00 Out | USB | (AB/Lac)     |
| E11 | 16-2 | 1300 | 4909  | Mon | 314/00 Out | USB | (AB-POL/Lac) |
| E11 | 16-2 | 1900 | 6849  | Mon | 649/00 Out | USB | (AB/Lac)     |
| E11 | 17-2 | 0645 | 12385 | Tue | 519/00 Out | USB | (AB)         |
| E11 | 17-2 | 0700 | 6804  | Tue | 573/00 Out | USB | (AB/Lac)     |
| E11 | 17-2 | 0715 | 13911 | Tue | 630/00 Out | USB | (AB/Lac)     |
| E11 | 17-2 | 0745 | 23031 | Tue | 228/00 Out | USB | (AB/Lac)     |
| E11 | 17-2 | 0845 | 17378 | Tue | 154/00 Out | USB | (AB/Lac)     |
| E11 | 17-2 | 0930 | 14611 | Tue | 134/00 Out | USB | (AB/Lac)     |
| E11 | 17-2 | 1000 | 9079  | Tue | 302/00 Out | USB | (AB/Lac)     |
| E11 | 17-2 | 1205 | 11559 | Tue | 466/00 Out | USB | (AB/Lac)     |
| E11 | 18-2 | 0315 | 8102  | Wed | 251/00 Out | USB | (TM)         |
| E11 | 18-2 | 0600 | 20286 | Wed | 945/00 Out | USB | (AB-POL)     |
| E11 | 18-2 | 0645 | 13911 | Wed | 410/00 Out | USB | (AB/Lac)     |
| E11 | 18-2 | 0715 | 20167 | Wed | 752/00 Out | USB | (AB/Lac)     |
| E11 | 18-2 | 0820 | 14611 | Wed | 134/00 Out | USB | (AB/Lac)     |
| E11 | 18-2 | 0845 | 12067 | Wed | 713/00 Out | USB | (AB/Lac)     |
| E11 | 18-2 | 0900 | 15915 | Wed | 533/00 Out | USB | (AB/Lac)     |
| E11 | 18-2 | 1045 | 14410 | Wed | 694/00 Out | USB | (AB/Lac)     |
| E11 | 18-2 | 1205 | 11559 | Wed | 462/00 Out | USB | (AB/Lac)     |
| E11 | 18-2 | 1610 | 4505  | Wed | 393/00 Out | USB | (AB/Lac)     |
| E11 | 18-2 | 1715 | 5082  | Wed | 977/00 Out | USB | (AB/Lac)     |
| E11 | 19-2 | 0645 | 12385 | Thu | 512/00 Out | USB | (AB)         |
| E11 | 19-2 | 0745 | 23031 | Thu | 229/00 Out | USB | (AB/Lac)     |
| E11 | 19-2 | 0845 | 17378 | Thu | 151/00 Out | USB | (AB/Lac)     |
| E11 | 19-2 | 1300 | 4909  | Thu | 312/00 Out | USB | (AB/Lac)     |
| E11 | 19-2 | 1530 | 5409  | Thu | 260/00 Out | USB | (AB/Lac)     |
| E11 | 19-2 | 1900 | 6849  | Thu | 648/00 Out | USB | (AB/Lac)     |
| E11 | 19-2 | 2000 | 5082  | Thu | 525/00 Out | USB | (AB/Lac)     |
| E11 | 20-2 | 0600 | 7850  | Fri | 359/00 Out | USB | (AB/Lac)     |
| E11 | 20-2 | 0700 | 6804  | Fri | 571/00 Out | USB | (AB/Lac)     |
| E11 | 20-2 | 0700 | 5371  | Fri | 490/00 Out | USB | (Lac)        |
| E11 | 20-2 | 0715 | 13911 | Fri | 637/00 Out | USB | (AB/Lac)     |
| E11 | 20-2 | 0830 | 23353 | Fri | 183/00 Out | USB | (AB/Lac)     |
| E11 | 20-2 | 1000 | 9079  | Fri | 307/00 Out | USB | (AB/Lac)     |
| E11 | 20-2 | 1715 | 5082  | Fri | 975/00 Out | USB | (AB/Lac)     |
| E11 | 20-2 | 1815 | 6849  | Fri | 927/00 Out | USB | (AB/Lac)     |
| E11 | 21-2 | 0700 | 5371  | Sat | 490/00 Out | USB | (AB)         |
| E11 | 21-2 | 1610 | 4505  | Sat | 399/00 Out | USB | (AB/Lac)     |
| E11 | 21-2 | 1645 | 4909  | Sat | 364/00 Out | USB | (AB/Lac)     |
| E11 | 22-2 | 0600 | 7850  | Sun | 353/00 Out | USB | (AB)         |
| E11 | 22-2 | 0700 | 5371  | Sun | 496/00 Out | USB | (AB)         |

|     |      |      |       |     |            |     |              |
|-----|------|------|-------|-----|------------|-----|--------------|
| E11 | 22-2 | 1645 | 4909  | Sun | 360/00 Out | USB | (AB)         |
| E11 | 22-2 | 1815 | 6849  | Sun | 920/00 Out | USB | (AB)         |
| E11 | 22-2 | 2000 | 5082  | Sun | 522/00 Out | USB | (AB)         |
| E11 | 23-2 | 0600 | 20286 | Mon | 944/00 Out | USB | (AB/Lac)     |
| E11 | 23-2 | 0745 | 10213 | Mon | 266/00 Out | USB | (AB)         |
| E11 | 23-2 | 0830 | 23353 | Mon | 182/00 Out | USB | (AB)         |
| E11 | 23-2 | 1045 | 14410 | Mon | 690/00 Out | USB | (AB/Lac)     |
| E11 | 23-2 | 1300 | 4909  | Mon | 319/00 Out | USB | (AB/Lac)     |
| E11 | 23-2 | 1745 | 12924 | Mon | 247/00 Out | USB | (AB/Lac)     |
| E11 | 23-2 | 1900 | 6849  | Mon | 643/00 Out | USB | (AB/Lac)     |
| E11 | 24-2 | 0505 | 12153 | Tue | 337/00 Out | USB | (TM)         |
| E11 | 24-2 | 0645 | 12385 | Tue | 518/00 Out | USB | (AB/Lac)     |
| E11 | 24-2 | 0745 | 23031 | Tue | 229/00 Out | USB | (AB)         |
| E11 | 24-2 | 0845 | 17378 | Tue | 157/00 Out | USB | (AB/Lac)     |
| E11 | 24-2 | 0930 | 14611 | Tue | 138/00 Out | USB | (AB/Lac)     |
| E11 | 24-2 | 1430 | 13363 | Tue | 917/00 Out | USB | (AB/Lac)     |
| E11 | 24-2 | 1605 | 5432  | Tue | 231/00 Out | USB | (AB/Lac)     |
| E11 | 25-2 | 0600 | 20286 | Wed | 946/00 Out | USB | (AB)         |
| E11 | 25-2 | 0745 | 17378 | Wed | 342/00 Out | USB | (AB/Lac)     |
| E11 | 25-2 | 0820 | 14611 | Wed | 138/00 Out | USB | (AB/Lac)     |
| E11 | 25-2 | 0930 | 7469  | Wed | 277/00 Out | USB | (AB/Lac)     |
| E11 | 25-2 | 1045 | 14410 | Wed | 697/00 Out | USB | (AB/Lac)     |
| E11 | 25-2 | 1610 | 4505  | Wed | 392/00 Out | USB | (AB/Lac)     |
| E11 | 25-2 | 1715 | 5082  | Wed | 976/00 Out | USB | (AB/Lac)     |
| E11 | 26-2 | 0505 | 12153 | Thu | 333/00 Out | USB | (AB)         |
| E11 | 26-2 | 0645 | 12385 | Thu | 519/00 Out | USB | (AB/Lac)     |
| E11 | 26-2 | 0720 | 8180  | Thu | 438/00 Out | USB | (AB/Lac)     |
| E11 | 26-2 | 0745 | 23031 | Thu | 220/00 Out | USB | (AB/Lac)     |
| E11 | 26-2 | 0845 | 17378 | Thu | 151/00 Out | USB | (AB)         |
| E11 | 26-2 | 0930 | 7469  | Thu | 275/00 Out | USB | (AB/Lac)     |
| E11 | 26-2 | 1300 | 4909  | Thu | 319/00 Out | USB | (AB-POL/Lac) |
| E11 | 26-2 | 1530 | 5409  | Thu | 266/00 Out | USB | (AB/Lac)     |
| E11 | 26-2 | 1900 | 6849  | Thu | 643/00 Out | USB | (AB)         |
| E11 | 26-2 | 1900 | 6849  | Thu | 643/00 Out | USB | (Lac)        |
| E11 | 27-2 | 0600 | 7850  | Fri | 351/00 Out | USB | (AB)         |
| E11 | 27-2 | 0720 | 8180  | Fri | 438/00 Out | USB | (AB)         |
| E11 | 27-2 | 0830 | 23353 | Fri | 181/00 Out | USB | (AB/Lac)     |
| E11 | 27-2 | 1020 | 17378 | Fri | 340/00 Out | USB | (AB)         |
| E11 | 27-2 | 1715 | 5082  | Fri | 975/00 Out | USB | (AB)         |
| E11 | 27-2 | 1815 | 6849  | Fri | 925/00 Out | USB | (AB)         |
| E11 | 27-2 | 1910 | 10487 | Fri | 612/00 Out | USB | (AB)         |
| E11 | 28-2 | 0700 | 5371  | Sat | 495/00 Out | USB | (AB)         |

|      |      |      |       |     |                                                                                   |     |                 |
|------|------|------|-------|-----|-----------------------------------------------------------------------------------|-----|-----------------|
| E11  | 28-2 | 1430 | 13363 | Sat | 919/00 Out                                                                        | USB | (AB)            |
| E11  | 28-2 | 1610 | 4505  | Sat | 393/00 Out                                                                        | USB | (AB/Lac)        |
| E11  | 28-2 | 1645 | 4909  | Sat | 363/00 Out                                                                        | USB | (AB)            |
| E11a | 1-2  | 0600 | 7850  | Sun | 352/38 Attention 05116 85107 52203 ... 60083 55278 09171 Attention (msg rptd) Out | USB | (AB/Subilo)     |
| E11a | 1-2  | 1645 | 4909  | Sun | 364/40 Attention 36001 59387 32745 ... 94051 31365 55983 Attention (msg rptd) Out | USB | (AB/Subilo)     |
| E11a | 2-2  | 0600 | 20286 | Mon | 949/22 Attention 12519 59197 12071 ... 02291 85122 71286 Attention (msg rptd) Out | USB | (AB/Subilo/Lac) |
| E11a | 2-2  | 0745 | 10213 | Mon | 268/31 Attention 02254 41277 26721 ... 16175 64929 77752 Attention (msg rptd) Out | USB | (AB/Subilo/Lac) |
| E11a | 2-2  | 0830 | 23353 | Mon | 180/22 Attention 72056 13525 58742 ... 10560 54589 44746 Attention (msg rptd) Out | USB | (AB/Subilo/Lac) |
| E11a | 2-2  | 1045 | 14410 | Mon | 691/22 Attention 55102 58419 65566 ... 43814 95557 25373 Attention (msg rptd) Out | USB | (AB/Subilo/Lac) |
| E11a | 2-2  | 1900 | 6849  | Mon | 647/37 Attention 84558 89263 09309 ... 32080 70173 71207 Attention (msg rptd) Out | USB | (AB/Subilo/Lac) |
| E11a | 3-2  | 0845 | 17378 | Tue | 159/22 Attention 76369 07085 43729 ... 19605 32992 10918 Attention (msg rptd) Out | USB | (AB/Subilo/Lac) |
| E11a | 3-2  | 0930 | 14611 | Tue | 132/36 Attention 10251 60065 29998 ... 71399 46816 05839 Attention (msg rptd) Out | USB | (AB/Subilo/Lac) |
| E11a | 4-2  | 0600 | 20286 | Wed | 949/22 Attention 12519 59197 12071 ... 02291 85122 71286 Attention (msg rptd) Out | USB | (AB-POL/Subilo) |
| E11a | 4-2  | 0820 | 14611 | Wed | 132/36 Attention 10251 60065 29998 ... 71399 46816 05839 Attention (msg rptd) Out | USB | (AB/Subilo)     |
| E11a | 4-2  | 1045 | 14410 | Wed | 696/22 Attention 80703 69519 46588 ... 12197 28889 35365 Attention (msg rptd) Out | USB | (AB/Subilo/Lac) |
| E11a | 4-2  | 1610 | 4505  | Wed | 391/38 Attention 22973 34076 94188 ... 01032 80237 57967 Attention (msg rptd) Out | USB | (AB/Subilo/Lac) |
| E11a | 5-2  | 0845 | 17378 | Thu | 159/22 Attention 76369 07085 43729 ... 19605 32992 10918 Attention (msg rptd) Out | USB | (AB/Subilo/Lac) |
| E11a | 5-2  | 1530 | 5409  | Thu | 261/31 Attention 53597 93431 68124 ... 86826 62501 54435 Attention (msg rptd) Out | USB | (AB/Subilo)     |
| E11a | 5-2  | 1900 | 6849  | Thu | 647/37 Attention 84558 89263 09309 ... 32080 70173 71207 Attention (msg rptd) Out | USB | (AB/Subilo)     |
| E11a | 6-2  | 0600 | 7850  | Fri | 353/32 Attention 49120 65117 11662 ... 79455 96728 07523 Attention (msg rptd) Out | USB | (AB/Subilo)     |
| E11a | 7-2  | 0700 | 5371  | Sat | 498/34 Attention 42069 22000 57997 ... 74607 31806 12115 Attention (msg rptd) Out | USB | (AB/Subilo)     |
| E11a | 7-2  | 1610 | 4505  | Sat | 391/38 Attention 22973 34076 94188 ... 01032 80237 57967 Attention (msg rptd) Out | USB | (AB/Subilo)     |
| E11a | 8-2  | 0600 | 7850  | Sun | 353/32 Attention 49120 65117 11662 ... 79455 96728 07523 Attention (msg rptd) Out | USB | (AB/Subilo)     |
| E11a | 8-2  | 0700 | 5371  | Sun | 498/34 Attention 42069 22000 57997 ... 74607 31806 12115 Attention (msg rptd) Out | USB | (AB/Subilo)     |
| E11a | 9-2  | 1300 | 4909  | Mon | 316/36 Attention 07091 45569 20017 ... 09357 08766 40820 Attention (msg rptd) Out | USB | (AB-POL/Subilo) |
| E11a | 10-2 | 0645 | 12385 | Tue | 515/31 Attention 31395 82144 71417 ... 80890 11771 48801 Attention (msg rptd) Out | USB | (AB/Subilo)     |
| E11a | 10-2 | 0745 | 23031 | Tue | 220/39 Attention 06269 20157 86872 ... 47713 14284 37950 Attention (msg rptd) Out | USB | (AB/Subilo)     |
| E11a | 11-2 | 1715 | 5082  | Wed | 974/32 Attention 46894 34034 13979 ... 85315 44881 75082 Attention (msg rptd) Out | USB | (AB/Subilo)     |
| E11a | 12-2 | 0645 | 12385 | Thu | 515/31 Attention 31395 82144 71417 ... 80890 11771 48801 Attention (msg rptd) Out | USB | (AB/Subilo)     |
| E11a | 12-2 | 0745 | 23031 | Thu | 220/39 Attention 06269 20157 86872 ... 47713 14284 37950 Attention (msg rptd) Out | USB | (AB/Subilo/Lac) |
| E11a | 12-2 | 1300 | 4909  | Thu | 316/36 Attention 07091 45569 20017 ... 09357 08766 40820 Attention (msg rptd) Out | USB | (AB/Subilo/Lac) |
| E11a | 13-2 | 1715 | 5082  | Fri | 974/32 Attention 46894 34034 13979 ... 85315 44881 75082 Attention (msg rptd) Out | USB | (AB/Subilo/Lac) |
| E11a | 13-2 | 1815 | 6849  | Fri | 927/32 Attention 84557 88169 83108 ... 90311 03851 43744 Attention (msg rptd) Out | USB | (AB/Subilo/Lac) |
| E11a | 14-2 | 1645 | 4909  | Sat | 369/32 Attention 56800 63457 97646 ... 05745 97688 49619 Attention (msg rptd) Out | USB | (AB/Subilo/Lac) |
| E11a | 15-2 | 1645 | 4909  | Sun | 369/32 Attention 56800 63457 97646 ... 05745 97688 49619 Attention (msg rptd) Out | USB | (AB/Subilo/Lac) |
| E11a | 15-2 | 1815 | 6849  | Sun | 927/32 Attention 84557 88169 83108 ... 90311 03851 43744 Attention (msg rptd) Out | USB | (AB/Subilo/Lac) |
| E11a | 16-2 | 1745 | 12924 | Mon | 246/33 Attention 25538 93372 73234 ... 29408 28738 26297 Attention (msg rptd) Out | USB | (AB/Subilo/Lac) |
| E11a | 17-2 | 1430 | 13363 | Tue | 912/37 Attention 02223 54408 00880 ... 62221 70035 79023 Attention (msg rptd) Out | USB | (AB/Subilo/Lac) |
| E11a | 17-2 | 1605 | 5432  | Tue | 236/36 Attention 14446 84443 28294 ... 38045 34090 00851 Attention (msg rptd) Out | USB | (AB/Subilo/Lac) |
| E11a | 18-2 | 0745 | 17378 | Wed | 344/38 Attention 82443 12911 38709 ... 82463 59967 30956 Attention (msg rptd) Out | USB | (AB/Subilo/Lac) |
| E11a | 18-2 | 0930 | 7469  | Wed | 273/38 Attention 85195 81926 41441 ... 39143 77505 52632 Attention (msg rptd) Out | USB | (AB/Subilo/Lac) |
| E11a | 19-2 | 0505 | 12153 | Thu | 334/37 Attention ... (too weak to copy)                                           | USB | (AB)            |

|      |      |      |       |     |                                                                                    |             |                 |
|------|------|------|-------|-----|------------------------------------------------------------------------------------|-------------|-----------------|
| E11a | 19-2 | 0720 | 8180  | Thu | 435/38 Attention 86998 12157 92684 ... 88556 70836 41476 Attention (msg rptd) Out  | USB         | (AB/Subilo/Lac) |
| E11a | 20-2 | 0720 | 8180  | Fri | 435/38 Attention 86998 12157 92684 ... 88556 70836 41476 Attention (msg rptd) Out  | USB         | (AB/Subilo/Lac) |
| E11a | 20-2 | 1020 | 17378 | Fri | 344/38 Attention 82443 12911 38709 ... 82463 59967 30956 Attention (msg rptd) Out  | USB         | (AB/Subilo/Lac) |
| E11a | 20-2 | 1910 | 10487 | Fri | 612/31 Attention 34121 40995 76779 ... 24135 73166 53898 Attention (msg rptd) Out  | USB         | (AB/Subilo/Lac) |
| E11a | 21-2 | 1430 | 13363 | Sat | 912/37 Attention 02223 54408 00880 ... 62221 70035 79023 Attention (msg rptd) Out  | USB         | (AB/Subilo/Lac) |
| E11a | 22-2 | 1605 | 5432  | Sun | 236/36 Attention 14446 84443 28294 ... 38045 34090 00851 Attention (msg rptd) Out  | USB         | (AB/Subilo)     |
| E11a | 22-2 | 1745 | 12924 | Sun | 247/33 Attention 76973 71700 76899 ... 54681 41729 48896 Attention (msg rptd) Out  | USB         | (AB/Subilo)     |
| E11a | 22-2 | 1910 | 10487 | Sun | 612/31 Attention 34121 40995 76779 ... 24135 73166 53898 Attention (msg rptd) Out  | USB         | (AB/Subilo)     |
| E11a | 23-2 | 0315 | 8102  | Mon | 252/33 Attention 73623 69286 03590 ... 20377 18256 54593 Attention (msg rptd)      | USB         | (TM)            |
| E11a | 23-2 | 0645 | 13911 | Mon | 410/31 Attention 59109 32108 03788 ... 08537 58309 15594 Attention (msg rptd) Out  | USB         | (AB/Subilo/Lac) |
| E11a | 23-2 | 0715 | 20167 | Mon | 757/34 Attention 83065 25624 57213 ... 77370 31459 25206 Attention (msg rptd) Out  | USB         | (AB/Subilo/Lac) |
| E11a | 23-2 | 0845 | 12067 | Mon | 715/39 Attention 29994 46169 08108 ... 92225 50461 89985 Attention (msg rptd) Out  | USB         | (AB/Subilo/Lac) |
| E11a | 23-2 | 0900 | 15915 | Mon | 530/40 Attention 84097 14118 45540 ... 01282 15646 18516 Attention (msg rptd) Out  | USB         | (AB/Subilo/Lac) |
| E11a | 24-2 | 0700 | 6804  | Tue | 573/37 Attention 59176 03252 56715 ... 08335 33233 26861 Attention (msg rptd) Out  | USB         | (AB/Subilo/Lac) |
| E11a | 24-2 | 0715 | 13911 | Tue | 631/35 Attention 28330 71624 35789 ... 17186 04168 12631 Attention (msg rptd) Out  | USB         | (AB/Subilo/Lac) |
| E11a | 24-2 | 1000 | 9079  | Tue | 306/28 Attention 24120 28792 04914 ... 27333 67984 43368 Attention (msg rptd) Out  | USB         | (AB/Subilo/Lac) |
| E11a | 24-2 | 1205 | 11559 | Tue | 466/31 Attention 91328 50557 96689 ... 52483 03408 71687 Attention (msg rptd) Out  | USB         | (AB/Subilo/Lac) |
| E11a | 25-2 | 0315 | 8102  | Wed | 252/33 Attention 73623 69286 03590 ... 20377 18256 54593 Attention (msg rptd)      | USB         | (TM)            |
| E11a | 25-2 | 0645 | 13911 | Wed | 410/31 Attention 59109 32108 03788 ... 08537 58309 15594 Attention (msg rptd) Out  | USB         | (AB/Subilo)     |
| E11a | 25-2 | 0715 | 20167 | Wed | 757/34 Attention 83065 25624 57213 ... 77370 31459 25206 Attention (msg rptd) Out  | USB         | (AB/Subilo/Lac) |
| E11a | 25-2 | 0845 | 12067 | Wed | 715/39 Attention 29994 46169 08108 ... 92225 50461 89985 Attention (msg rptd) Out  | USB         | (AB/Subilo/Lac) |
| E11a | 25-2 | 0900 | 15915 | Wed | 530/40 Attention 84097 14118 45540 ... 01282 15646 18516 Attention (msg rptd) Out  | USB         | (AB/Subilo/Lac) |
| E11a | 25-2 | 1205 | 11559 | Wed | 466/31 Attention 91328 50557 96689 ... 52483 03408 71687 Attention (msg rptd) Outt | USB         | (AB/Subilo/Lac) |
| E11a | 26-2 | 2000 | 5082  | Thu | 527/35 Attention 69546 19118 75352 ... 93792 33688 21743 Attention (msg rptd) Out  | USB         | (AB/Subilo/Lac) |
| E11a | 27-2 | 0700 | 6804  | Fri | 573/37 Attention 59176 03252 56715 ... 08335 33233 26861 Attention (msg rptd) Out  | USB         | (AB/Subilo)     |
| E11a | 27-2 | 0715 | 13911 | Fri | 631/35 Attention 28330 71624 35789 ... 17186 04168 12631 Attention (msg rptd) Out  | USB         | (AB/Subilo)     |
| E11a | 27-2 | 1000 | 9079  | Fri | 306/28 Attention 24120 28792 04914 ... 27333 67984 43368 Attention (msg rptd) Out  | USB         | (AB/Subilo/Lac) |
| F01  | 2-2  | 1015 | 12184 | Mon | Message 48                                                                         | FSK 200/500 | (AB)            |
| F01  | 2-2  | 1025 | 10169 | Mon | Message 48                                                                         | FSK 200/500 | (AB)            |
| F01  | 2-2  | 1035 | 8079  | Mon | Message 48                                                                         | FSK 200/500 | (AB)            |
| F01  | 3-2  | 1015 | 12184 | Tue | Messages 49 and 50                                                                 | FSK 200/500 | (AB)            |
| F01  | 3-2  | 1025 | 10169 | Tue | Messages 49 and 50                                                                 | FSK 200/500 | (AB)            |
| F01  | 3-2  | 1035 | 8079  | Tue | Messages 49 and 50                                                                 | FSK 200/500 | (AB)            |
| F01  | 4-2  | 1015 | 12184 | Wed | Message 51                                                                         | FSK 200/500 | (AB)            |
| F01  | 4-2  | 1025 | 10169 | Wed | Message 51                                                                         | FSK 200/500 | (AB)            |
| F01  | 4-2  | 1035 | 8079  | Wed | Message 51                                                                         | FSK 200/500 | (AB)            |
| F01  | 5-2  | 1015 | 12184 | Thu | Messages 52 and 53                                                                 | FSK 200/500 | (AB)            |
| F01  | 5-2  | 1025 | 10169 | Thu | Messages 52 and 53                                                                 | FSK 200/500 | (AB)            |
| F01  | 5-2  | 1035 | 8079  | Thu | Messages 52 and 53                                                                 | FSK 200/500 | (AB)            |
| F01  | 6-2  | 1015 | 12184 | Fri | 00000 +++++ +++++                                                                  | FSK 200/500 | (AB)            |
| F01  | 6-2  | 1025 | 10169 | Fri | 00000 +++++ +++++                                                                  | FSK 200/500 | (AB)            |

|            |      |      |       |     |                               |             |      |
|------------|------|------|-------|-----|-------------------------------|-------------|------|
| <b>F01</b> | 6-2  | 1035 | 8079  | Fri | 00000 +++++ +++++             | FSK 200/500 | (AB) |
| <b>F01</b> | 9-2  | 1015 | 12184 | Mon | Message 54                    | FSK 200/500 | (AB) |
| <b>F01</b> | 9-2  | 1025 | 10169 | Mon | Message 54                    | FSK 200/500 | (AB) |
| <b>F01</b> | 9-2  | 1035 | 8079  | Mon | Message 54                    | FSK 200/500 | (AB) |
| <b>F01</b> | 10-2 | 1015 | 12184 | Tue | Messages 55 and 56            | FSK 200/500 | (AB) |
| <b>F01</b> | 10-2 | 1025 | 10169 | Tue | Messages 55 and 56            | FSK 200/500 | (AB) |
| <b>F01</b> | 10-2 | 1035 | 8079  | Tue | Messages 55 and 56            | FSK 200/500 | (AB) |
| <b>F01</b> | 11-2 | 1015 | 12184 | Wed | Message 57. Wrong 100Bd speed | FSK 100/500 | (AB) |
| <b>F01</b> | 11-2 | 1025 | 10169 | Wed | Not monitored                 | FSK 200/500 | (AB) |
| <b>F01</b> | 11-2 | 1035 | 8079  | Wed | Not monitored                 | FSK 200/500 | (AB) |
| <b>F01</b> | 12-2 | 1015 | 12184 | Thu | Messages 58 and 59            | FSK 200/500 | (AB) |
| <b>F01</b> | 12-2 | 1025 | 10169 | Thu | Messages 58 and 59            | FSK 200/500 | (AB) |
| <b>F01</b> | 12-2 | 1035 | 8079  | Thu | Messages 58 and 59            | FSK 200/500 | (AB) |
| <b>F01</b> | 13-2 | 1015 | 12184 | Fri | 00000 +++++ +++++             | FSK 200/500 | (AB) |
| <b>F01</b> | 13-2 | 1025 | 10169 | Fri | 00000 +++++ +++++             | FSK 200/500 | (AB) |
| <b>F01</b> | 13-2 | 1035 | 8079  | Fri | 00000 +++++ +++++             | FSK 200/500 | (AB) |
| <b>F01</b> | 16-2 | 1015 | 12184 | Mon | Message 60                    | FSK 200/500 | (AB) |
| <b>F01</b> | 16-2 | 1025 | 10169 | Mon | Message 60                    | FSK 200/500 | (AB) |
| <b>F01</b> | 16-2 | 1035 | 8079  | Mon | Message 60                    | FSK 200/500 | (AB) |
| <b>F01</b> | 17-2 | 1015 | 12184 | Tue | Messages 61 and 62            | FSK 200/500 | (AB) |
| <b>F01</b> | 17-2 | 1025 | 10169 | Tue | Messages 61 and 62            | FSK 200/500 | (AB) |
| <b>F01</b> | 17-2 | 1035 | 8079  | Tue | Messages 61 and 62            | FSK 200/500 | (AB) |
| <b>F01</b> | 18-2 | 1015 | 12184 | Wed | Message 63                    | FSK 200/500 | (AB) |
| <b>F01</b> | 18-2 | 1025 | 10169 | Wed | Message 63                    | FSK 200/500 | (AB) |
| <b>F01</b> | 18-2 | 1035 | 8079  | Wed | Message 63                    | FSK 200/500 | (AB) |
| <b>F01</b> | 19-2 | 1015 | 12184 | Thu | Messages 64 and 65            | FSK 200/500 | (AB) |
| <b>F01</b> | 19-2 | 1025 | 10169 | Thu | Messages 64 and 65            | FSK 200/500 | (AB) |
| <b>F01</b> | 19-2 | 1035 | 8079  | Thu | Messages 64 and 65            | FSK 200/500 | (AB) |
| <b>F01</b> | 20-2 | 1015 | 12184 | Fri | 00000 +++++ +++++             | FSK 200/500 | (AB) |
| <b>F01</b> | 20-2 | 1025 | 10169 | Fri | 00000 +++++ +++++             | FSK 200/500 | (AB) |
| <b>F01</b> | 20-2 | 1035 | 8079  | Fri | 00000 +++++ +++++             | FSK 200/500 | (AB) |
| <b>F01</b> | 23-2 | 1015 | 12184 | Mon | Message 66                    | FSK 200/500 | (AB) |
| <b>F01</b> | 23-2 | 1025 | 10169 | Mon | Message 66                    | FSK 200/500 | (AB) |
| <b>F01</b> | 23-2 | 1035 | 8079  | Mon | Message 66                    | FSK 200/500 | (AB) |
| <b>F01</b> | 24-2 | 1015 | 12184 | Tue | Messages 67 and 68            | FSK 200/500 | (AB) |
| <b>F01</b> | 24-2 | 1025 | 10169 | Tue | Messages 67 and 68            | FSK 200/500 | (AB) |
| <b>F01</b> | 24-2 | 1035 | 8079  | Tue | Messages 67 and 68            | FSK 200/500 | (AB) |
| <b>F01</b> | 25-2 | 1015 | 12184 | Wed | Message 69                    | FSK 200/500 | (AB) |
| <b>F01</b> | 25-2 | 1025 | 10169 | Wed | Message 69                    | FSK 200/500 | (AB) |
| <b>F01</b> | 25-2 | 1035 | 8079  | Wed | Message 69                    | FSK 200/500 | (AB) |
| <b>F01</b> | 26-2 | 1015 | 12184 | Thu | Messages 70 and 71            | FSK 200/500 | (AB) |
| <b>F01</b> | 26-2 | 1025 | 10169 | Thu | Messages 70 and 71            | FSK 200/500 | (AB) |



|             |      |      |       |     |                            |                         |      |
|-------------|------|------|-------|-----|----------------------------|-------------------------|------|
| <b>F01</b>  | 26-2 | 1035 | 8079  | Thu | Messages 70 and 71         | FSK 200/500             | (AB) |
| <b>F01</b>  | 27-2 | 1015 | 12184 | Fri | 00000 +++++ +++++          | FSK 200/500             | (AB) |
| <b>F01</b>  | 27-2 | 1025 | 10169 | Fri | 00000 +++++ +++++          | FSK 200/500             | (AB) |
| <b>F01</b>  | 27-2 | 1035 | 8079  | Fri | 00000 +++++ +++++          | FSK 200/500             | (AB) |
| <b>F02</b>  | 10-2 | 0745 | 14983 | Tue | Russian domestic net. Test | MFSK-4 150Bd/4000Hz     | (AB) |
| <b>F02</b>  | 10-2 | 0800 | 14983 | Tue | Russian domestic net       | MFSK-4 150Bd/4000Hz     | (AB) |
| <b>F02</b>  | 17-2 | 0749 | 14983 | Tue | Russian domestic net. Test | MFSK-4 150Bd/4000Hz     | (AB) |
| <b>F02</b>  | 17-2 | 0800 | 14983 | Tue | Russian domestic net       | MFSK-4 150Bd/4000Hz     | (AB) |
| <b>F02</b>  | 24-2 | 0624 | 14983 | Tue | Russian domestic net       | MFSK-4 150Bd/4000Hz     | (AB) |
| <b>F02</b>  | 24-2 | 0636 | 14983 | Tue | Russian domestic net       | MFSK-4 150Bd/4000Hz     | (AB) |
| <b>F02</b>  | 24-2 | 0745 | 14983 | Tue | Russian domestic net. Test | MFSK-4 150Bd/4000Hz     | (AB) |
| <b>F02</b>  | 24-2 | 0800 | 14983 | Tue | Russian domestic net       | MFSK-4 150Bd/4000Hz     | (AB) |
| <b>F02</b>  | 27-2 | 1040 | 17432 | Fri | Russian domestic net       | MFSK-4 150Bd/4000Hz     | (AB) |
| <b>F02</b>  | 27-2 | 1050 | 17432 | Fri | Russian domestic net       | MFSK-4 150Bd/4000Hz     | (AB) |
| <b>F03j</b> | 2-2  | 1010 | 12089 | Mon | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (AB) |
| <b>F03j</b> | 2-2  | 1015 | 12089 | Mon | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (AB) |
| <b>F03j</b> | 3-2  | 0635 | 20905 | Tue | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (PY) |
| <b>F03j</b> | 3-2  | 0640 | 20905 | Tue | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (PY) |
| <b>F03j</b> | 4-2  | 0615 | 20586 | Wed | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (AB) |
| <b>F03j</b> | 4-2  | 0620 | 20586 | Wed | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (AB) |
| <b>F03j</b> | 4-2  | 0915 | 5946  | Wed | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (AB) |
| <b>F03j</b> | 4-2  | 0920 | 5946  | Wed | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (AB) |
| <b>F03j</b> | 4-2  | 1010 | 12089 | Wed | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (AB) |
| <b>F03j</b> | 4-2  | 1015 | 12089 | Wed | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (AB) |
| <b>F03j</b> | 5-2  | 0635 | 20905 | Thu | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (AB) |
| <b>F03j</b> | 5-2  | 0640 | 20905 | Thu | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (AB) |
| <b>F03j</b> | 5-2  | 0700 | 8803  | Thu | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (AB) |
| <b>F03j</b> | 5-2  | 0705 | 8803  | Thu | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (AB) |
| <b>F03j</b> | 5-2  | 0915 | 5946  | Thu | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (AB) |
| <b>F03j</b> | 5-2  | 0920 | 5946  | Thu | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (AB) |
| <b>F03j</b> | 6-2  | 0700 | 8803  | Fri | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (AB) |
| <b>F03j</b> | 6-2  | 0705 | 8803  | Fri | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (AB) |
| <b>F03j</b> | 9-2  | 1010 | 12089 | Mon | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (AB) |
| <b>F03j</b> | 9-2  | 1015 | 12089 | Mon | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (AB) |
| <b>F03j</b> | 10-2 | 0635 | 20905 | Tue | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (PY) |
| <b>F03j</b> | 10-2 | 0640 | 20905 | Tue | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (PY) |
| <b>F03j</b> | 11-2 | 0615 | 20586 | Wed | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (AB) |
| <b>F03j</b> | 11-2 | 0620 | 20586 | Wed | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (AB) |
| <b>F03j</b> | 11-2 | 0915 | 5946  | Wed | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (AB) |
| <b>F03j</b> | 11-2 | 0920 | 5946  | Wed | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (AB) |
| <b>F03j</b> | 11-2 | 1010 | 12089 | Wed | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (AB) |
| <b>F03j</b> | 11-2 | 1015 | 12089 | Wed | Polish intel.              | FSK-4 100Bd/400Hz/448bp | (AB) |

|      |      |      |       |     |               |                         |      |
|------|------|------|-------|-----|---------------|-------------------------|------|
| F03j | 12-2 | 0635 | 20905 | Thu | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 12-2 | 0640 | 20905 | Thu | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 12-2 | 0700 | 8803  | Thu | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 12-2 | 0705 | 8803  | Thu | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 12-2 | 0915 | 5946  | Thu | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 12-2 | 0920 | 5946  | Thu | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 13-2 | 0700 | 8803  | Fri | Not heard     | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 13-2 | 0705 | 8803  | Fri | Not heard     | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 16-2 | 1010 | 12089 | Mon | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 16-2 | 1015 | 12089 | Mon | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 17-2 | 0635 | 20905 | Tue | Polish intel. | FSK-4 100Bd/400Hz/448bp | (PY) |
| F03j | 17-2 | 0640 | 20905 | Tue | Polish intel. | FSK-4 100Bd/400Hz/448bp | (PY) |
| F03j | 18-2 | 0615 | 20586 | Wed | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 18-2 | 0620 | 20586 | Wed | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 18-2 | 0915 | 5946  | Wed | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 18-2 | 0920 | 5946  | Wed | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 18-2 | 1010 | 12089 | Wed | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 18-2 | 1015 | 12089 | Wed | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 19-2 | 0635 | 20905 | Thu | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 19-2 | 0640 | 20905 | Thu | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 19-2 | 0700 | 8803  | Thu | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 19-2 | 0705 | 8803  | Thu | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 19-2 | 0915 | 5946  | Thu | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 19-2 | 0920 | 5946  | Thu | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 20-2 | 0700 | 8803  | Fri | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 20-2 | 0705 | 8803  | Fri | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 23-2 | 1010 | 12089 | Mon | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 23-2 | 1015 | 12089 | Mon | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 24-2 | 0635 | 20905 | Tue | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 24-2 | 0640 | 20905 | Tue | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 25-2 | 0615 | 20586 | Wed | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 25-2 | 0620 | 20586 | Wed | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 25-2 | 0915 | 5946  | Wed | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 25-2 | 0920 | 5946  | Wed | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 25-2 | 1010 | 12089 | Wed | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 25-2 | 1015 | 12089 | Wed | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 26-2 | 0635 | 20905 | Thu | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 26-2 | 0640 | 20905 | Thu | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 26-2 | 0700 | 8803  | Thu | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 26-2 | 0705 | 8803  | Thu | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 26-2 | 0915 | 5946  | Thu | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| F03j | 26-2 | 0920 | 5946  | Thu | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |

|             |      |      |       |     |               |                         |                 |
|-------------|------|------|-------|-----|---------------|-------------------------|-----------------|
| <b>F03j</b> | 27-2 | 0700 | 8803  | Fri | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB)            |
| <b>F03j</b> | 27-2 | 0705 | 8803  | Fri | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB)            |
| <b>F03I</b> | 2-2  | 0630 | 13424 | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 2-2  | 0635 | 13424 | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 2-2  | 0735 | 8800  | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 2-2  | 0740 | 8800  | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 2-2  | 0810 | 25336 | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 2-2  | 0815 | 25336 | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 2-2  | 0930 | 6304  | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB-POL/Subilo) |
| <b>F03I</b> | 2-2  | 0935 | 6304  | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB-POL/Subilo) |
| <b>F03I</b> | 2-2  | 0950 | 14975 | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB-POL)        |
| <b>F03I</b> | 2-2  | 0955 | 14975 | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB-POL)        |
| <b>F03I</b> | 3-2  | 0615 | 6891  | Tue | Polish intel. | QPSK 100Bd/464bp        | (AB/PY)         |
| <b>F03I</b> | 3-2  | 0620 | 6891  | Tue | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 3-2  | 0810 | 18511 | Tue | Polish intel. | QPSK 100Bd/464bp        | (PY)            |
| <b>F03I</b> | 3-2  | 0815 | 18511 | Tue | Polish intel. | QPSK 100Bd/464bp        | (PY)            |
| <b>F03I</b> | 3-2  | 0835 | 17120 | Tue | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 3-2  | 0840 | 17120 | Tue | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 4-2  | 0630 | 13424 | Wed | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 4-2  | 0635 | 13424 | Wed | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 4-2  | 0950 | 14975 | Wed | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 4-2  | 0955 | 14975 | Wed | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 5-2  | 0615 | 6891  | Thu | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 5-2  | 0620 | 6891  | Thu | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 5-2  | 0735 | 8800  | Thu | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 5-2  | 0740 | 8800  | Thu | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 5-2  | 0835 | 17120 | Thu | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 5-2  | 0840 | 17120 | Thu | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 6-2  | 0850 | 18511 | Fri | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 6-2  | 0855 | 18511 | Fri | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 6-2  | 0930 | 6304  | Fri | Polish intel. | QPSK 100Bd/464bp        | (AB-POL)        |
| <b>F03I</b> | 6-2  | 0935 | 6304  | Fri | Polish intel. | QPSK 100Bd/464bp        | (AB-POL)        |
| <b>F03I</b> | 6-2  | 0945 | 6480  | Fri | Polish intel. | QPSK 100Bd/464bp        | (AB-POL)        |
| <b>F03I</b> | 6-2  | 0950 | 6480  | Fri | Polish intel. | QPSK 100Bd/464bp        | (AB-POL)        |
| <b>F03I</b> | 9-2  | 0630 | 13424 | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 9-2  | 0635 | 13424 | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 9-2  | 0735 | 8800  | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 9-2  | 0740 | 8800  | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 9-2  | 0810 | 25336 | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 9-2  | 0815 | 25336 | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB)            |
| <b>F03I</b> | 9-2  | 0930 | 6304  | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB-POL)        |
| <b>F03I</b> | 9-2  | 0935 | 6304  | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB-POL)        |



|             |      |      |       |     |               |                  |          |
|-------------|------|------|-------|-----|---------------|------------------|----------|
| <b>F03I</b> | 9-2  | 0950 | 14975 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB-POL) |
| <b>F03I</b> | 9-2  | 0955 | 14975 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB-POL) |
| <b>F03I</b> | 9-2  | 1030 | 15690 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 9-2  | 1035 | 15690 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 10-2 | 0615 | 6891  | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 10-2 | 0620 | 6891  | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 10-2 | 0810 | 18511 | Tue | Polish intel. | QPSK 100Bd/464bp | (PY)     |
| <b>F03I</b> | 10-2 | 0815 | 18511 | Tue | Polish intel. | QPSK 100Bd/464bp | (PY)     |
| <b>F03I</b> | 10-2 | 0835 | 17120 | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 10-2 | 0840 | 17120 | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 11-2 | 0630 | 13424 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 11-2 | 0635 | 13424 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 11-2 | 0950 | 14975 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 11-2 | 0955 | 14975 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 12-2 | 0615 | 6891  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 12-2 | 0620 | 6891  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 12-2 | 0735 | 8800  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 12-2 | 0740 | 8800  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 12-2 | 0835 | 17120 | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 12-2 | 0840 | 17120 | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 13-2 | 0810 | 25336 | Fri | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 13-2 | 0815 | 25336 | Fri | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 13-2 | 0850 | 18511 | Fri | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 13-2 | 0855 | 18511 | Fri | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 13-2 | 0930 | 6304  | Fri | Polish intel. | QPSK 100Bd/464bp | (AB-POL) |
| <b>F03I</b> | 13-2 | 0935 | 6304  | Fri | Polish intel. | QPSK 100Bd/464bp | (AB-POL) |
| <b>F03I</b> | 13-2 | 0945 | 6480  | Fri | Polish intel. | QPSK 100Bd/464bp | (AB-POL) |
| <b>F03I</b> | 13-2 | 0950 | 6480  | Fri | Polish intel. | QPSK 100Bd/464bp | (AB-POL) |
| <b>F03I</b> | 16-2 | 0630 | 13424 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 16-2 | 0635 | 13424 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 16-2 | 0735 | 8800  | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 16-2 | 0740 | 8800  | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 16-2 | 0810 | 25336 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 16-2 | 0815 | 25336 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 16-2 | 0930 | 6304  | Mon | Polish intel. | QPSK 100Bd/464bp | (AB-POL) |
| <b>F03I</b> | 16-2 | 0935 | 6304  | Mon | Polish intel. | QPSK 100Bd/464bp | (AB-POL) |
| <b>F03I</b> | 16-2 | 0950 | 14975 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB-POL) |
| <b>F03I</b> | 16-2 | 0955 | 14975 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB-POL) |
| <b>F03I</b> | 16-2 | 1030 | 15690 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 16-2 | 1035 | 15690 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 17-2 | 0615 | 6891  | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 17-2 | 0620 | 6891  | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |

|             |      |      |       |     |               |                  |          |
|-------------|------|------|-------|-----|---------------|------------------|----------|
| <b>F03I</b> | 17-2 | 0810 | 18511 | Tue | Polish intel. | QPSK 100Bd/464bp | (PY)     |
| <b>F03I</b> | 17-2 | 0815 | 18511 | Tue | Polish intel. | QPSK 100Bd/464bp | (PY)     |
| <b>F03I</b> | 17-2 | 0835 | 17120 | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 17-2 | 0840 | 17120 | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 17-2 | 0945 | 6480  | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 17-2 | 0950 | 6480  | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 18-2 | 0630 | 13424 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 18-2 | 0635 | 13424 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 18-2 | 0950 | 14975 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 18-2 | 0955 | 14975 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 19-2 | 0615 | 6891  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 19-2 | 0620 | 6891  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 19-2 | 0735 | 8800  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 19-2 | 0740 | 8800  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 19-2 | 0835 | 17120 | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 19-2 | 0840 | 17120 | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 20-2 | 0810 | 25336 | Fri | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 20-2 | 0815 | 25336 | Fri | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 20-2 | 0850 | 18511 | Fri | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 20-2 | 0855 | 18511 | Fri | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 20-2 | 0930 | 6304  | Fri | Polish intel. | QPSK 100Bd/464bp | (AB-POL) |
| <b>F03I</b> | 20-2 | 0935 | 6304  | Fri | Polish intel. | QPSK 100Bd/464bp | (AB-POL) |
| <b>F03I</b> | 20-2 | 0945 | 6480  | Fri | Polish intel. | QPSK 100Bd/464bp | (AB-POL) |
| <b>F03I</b> | 20-2 | 0950 | 6480  | Fri | Polish intel. | QPSK 100Bd/464bp | (AB-POL) |
| <b>F03I</b> | 23-2 | 0630 | 13424 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 23-2 | 0635 | 13424 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 23-2 | 0735 | 8800  | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 23-2 | 0740 | 8800  | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 23-2 | 0810 | 25336 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 23-2 | 0815 | 25336 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 23-2 | 0930 | 6304  | Mon | Polish intel. | QPSK 100Bd/464bp | (AB-POL) |
| <b>F03I</b> | 23-2 | 0935 | 6304  | Mon | Polish intel. | QPSK 100Bd/464bp | (AB-POL) |
| <b>F03I</b> | 23-2 | 0950 | 14975 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB-POL) |
| <b>F03I</b> | 23-2 | 0955 | 14975 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB-POL) |
| <b>F03I</b> | 23-2 | 1030 | 15690 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 23-2 | 1035 | 15690 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 24-2 | 0615 | 6891  | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 24-2 | 0620 | 6891  | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 24-2 | 0810 | 18511 | Tue | Polish intel. | QPSK 100Bd/464bp | (PY)     |
| <b>F03I</b> | 24-2 | 0815 | 18511 | Tue | Polish intel. | QPSK 100Bd/464bp | (PY)     |
| <b>F03I</b> | 24-2 | 0835 | 17120 | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| <b>F03I</b> | 24-2 | 0840 | 17120 | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |

|      |      |      |       |     |                                                                 |                  |         |
|------|------|------|-------|-----|-----------------------------------------------------------------|------------------|---------|
| F03I | 24-2 | 0945 | 6480  | Tue | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)    |
| F03I | 24-2 | 0950 | 6480  | Tue | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)    |
| F03I | 25-2 | 0630 | 13424 | Wed | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)    |
| F03I | 25-2 | 0635 | 13424 | Wed | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)    |
| F03I | 25-2 | 0950 | 14975 | Wed | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)    |
| F03I | 25-2 | 0955 | 14975 | Wed | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)    |
| F03I | 25-2 | 1030 | 15690 | Wed | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)    |
| F03I | 25-2 | 1035 | 15690 | Wed | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)    |
| F03I | 26-2 | 0735 | 8800  | Thu | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)    |
| F03I | 26-2 | 0740 | 8800  | Thu | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)    |
| F03I | 26-2 | 0835 | 17120 | Thu | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)    |
| F03I | 26-2 | 0840 | 17120 | Thu | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)    |
| F03I | 27-2 | 0810 | 25336 | Fri | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)    |
| F03I | 27-2 | 0815 | 25336 | Fri | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)    |
| F03I | 27-2 | 0930 | 6304  | Fri | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)    |
| F03I | 27-2 | 0935 | 6304  | Fri | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)    |
| F03I | 27-2 | 0945 | 6480  | Fri | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)    |
| F03I | 27-2 | 0950 | 6480  | Fri | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)    |
| F06  | 1-2  | 0830 | 12167 | Sun | 11100 00000 86341 30034 02339                                   | FSK 200/1000     | (AB/PY) |
| F06  | 1-2  | 0840 | 9944  | Sun | 11100 00000 86341 30034 02339                                   | FSK 200/1000     | (AB/PY) |
| F06  | 1-2  | 1530 | 14983 | Sun | 11166 10053 32147 01001 00049 00000 00000 00000 00000           | FSK 200/1000     | (AB)    |
| F06  | 1-2  | 1540 | 13379 | Sun | 11166 10053 32147 01001 00049 00000 00000 00000 00000           | FSK 200/1000     | (AB)    |
| F06  | 1-2  | 1550 | 10948 | Sun | 11166 10053 32147 01001 00049 00000 00000 00000 00000           | FSK 200/1000     | (AB)    |
| F06  | 2-2  | 0800 | 10421 | Mon | 11100 00000 64297 30029 01659                                   | FSK 200/1000     | (AB)    |
| F06  | 2-2  | 0810 | 8016  | Mon | 11100 00000 64297 30029 01659                                   | FSK 200/1000     | (AB)    |
| F06  | 2-2  | 0820 | 6812  | Mon | 11100 00000 64297 30029 01659                                   | FSK 200/1000     | (AB)    |
| F06  | 3-2  | 0700 | 11048 | Tue | 11166 70202 78521 02053 01839 and 11166 70202 86412 02054 02239 | FSK 200/1000     | (AB)    |
| F06  | 3-2  | 0710 | 9244  | Tue | 11166 70202 78521 02053 01839 and 11166 70202 86412 02054 02239 | FSK 200/1000     | (AB)    |
| F06  | 3-2  | 0720 | 6812  | Tue | 11166 70202 78521 02053 01839 and 11166 70202 86412 02054 02239 | FSK 200/1000     | (AB)    |
| F06  | 3-2  | 0800 | 10421 | Tue | 11100 00000 64297 30029 01659                                   | FSK 200/1000     | (AB)    |
| F06  | 3-2  | 0810 | 8016  | Tue | 11100 00000 64297 30029 01659                                   | FSK 200/1000     | (AB)    |
| F06  | 3-2  | 0820 | 6812  | Tue | 11100 00000 64297 30029 01659                                   | FSK 200/1000     | (AB)    |
| F06  | 3-2  | 1200 | 11164 | Tue | 11166 70202 78521 02053 01839 and 11166 70202 86412 02054 02239 | FSK 200/1000     | (AB)    |
| F06  | 3-2  | 1210 | 9164  | Tue | 11166 70202 78521 02053 01839 and 11166 70202 86412 02054 02239 | FSK 200/1000     | (AB)    |
| F06  | 3-2  | 1220 | 7617  | Tue | 11166 70202 78521 02053 01839 and 11166 70202 86412 02054 02239 | FSK 200/1000     | (AB)    |
| F06  | 3-2  | 1650 | 13377 | Tue | 11166 10053 43725 03001 00049 00000 00000 00000 00000           | FSK 200/1000     | (AB)    |
| F06  | 3-2  | 1700 | 12225 | Tue | 11166 10053 43725 03001 00049 00000 00000 00000 00000           | FSK 200/1000     | (AB)    |
| F06  | 3-2  | 1710 | 9139  | Tue | 11166 10053 43725 03001 00049 00000 00000 00000 00000           | FSK 200/1000     | (AB)    |
| F06  | 5-2  | 0700 | 11048 | Thu | 11166 70202 63521 04056 01539 and 11166 70202 95623 04057 01739 | FSK 200/1000     | (AB)    |
| F06  | 5-2  | 0710 | 9244  | Thu | 11166 70202 63521 04056 01539 and 11166 70202 95623 04057 01739 | FSK 200/1000     | (AB)    |
| F06  | 5-2  | 0720 | 6812  | Thu | 11166 70202 63521 04056 01539 and 11166 70202 95623 04057 01739 | FSK 200/1000     | (AB)    |
| F06  | 5-2  | 1200 | 11164 | Thu | 11166 70202 63521 04056 01539 and 11166 70202 95623 04057 01739 | FSK 200/1000     | (AB)    |

|     |      |      |       |     |                                                                 |              |      |
|-----|------|------|-------|-----|-----------------------------------------------------------------|--------------|------|
| F06 | 5-2  | 1210 | 9164  | Thu | 11166 70202 63521 04056 01539 and 11166 70202 95623 04057 01739 | FSK 200/1000 | (AB) |
| F06 | 5-2  | 1220 | 7617  | Thu | 11166 70202 63521 04056 01539 and 11166 70202 95623 04057 01739 | FSK 200/1000 | (AB) |
| F06 | 5-2  | 1330 | 19237 | Thu | 11166 80214 26598 05005 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 5-2  | 1340 | 14979 | Thu | 11166 80214 26598 05005 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 5-2  | 1350 | 12205 | Thu | 11166 80214 26598 05005 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 6-2  | 0700 | 11048 | Fri | 11166 70202 85471 06011 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 6-2  | 0710 | 9244  | Fri | 11166 70202 85471 06011 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 6-2  | 0720 | 6812  | Fri | 11166 70202 85471 06011 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 7-2  | 1700 | 9481  | Sat | 11100 00000 86341 05035 01779                                   | FSK 200/1000 | (AB) |
| F06 | 7-2  | 1710 | 7362  | Sat | 11100 00000 86341 05035 01779                                   | FSK 200/1000 | (AB) |
| F06 | 7-2  | 1720 | 5783  | Sat | 11100 00000 86341 05035 01779                                   | FSK 200/1000 | (AB) |
| F06 | 8-2  | 0830 | 12167 | Sun | 11100 00000 86341 05035 01779                                   | FSK 200/1000 | (AB) |
| F06 | 8-2  | 0840 | 9944  | Sun | 11100 00000 86341 05035 01779                                   | FSK 200/1000 | (AB) |
| F06 | 8-2  | 1530 | 14983 | Sun | 11166 10053 25843 08001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 8-2  | 1540 | 13379 | Sun | 11166 10053 25843 08001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 8-2  | 1550 | 10948 | Sun | 11166 10053 25843 08001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 9-2  | 0800 | 10421 | Mon | 11100 00000 84297 06030 01259                                   | FSK 200/1000 | (AB) |
| F06 | 9-2  | 0810 | 8016  | Mon | 11100 00000 84297 06030 01259                                   | FSK 200/1000 | (AB) |
| F06 | 9-2  | 0820 | 6812  | Mon | 11100 00000 84297 06030 01259                                   | FSK 200/1000 | (AB) |
| F06 | 10-2 | 0030 | 9358  | Tue | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB) |
| F06 | 10-2 | 0040 | 8019  | Tue | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB) |
| F06 | 10-2 | 0050 | 7319  | Tue | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB) |
| F06 | 10-2 | 0700 | 11048 | Tue | 11166 70202 31528 09059 01459 and 11166 70202 48375 09060 01719 | FSK 200/1000 | (AB) |
| F06 | 10-2 | 0710 | 9244  | Tue | 11166 70202 31528 09059 01459 and 11166 70202 48375 09060 01719 | FSK 200/1000 | (AB) |
| F06 | 10-2 | 0720 | 6812  | Tue | 11166 70202 31528 09059 01459 and 11166 70202 48375 09060 01719 | FSK 200/1000 | (AB) |
| F06 | 10-2 | 0800 | 10421 | Tue | 11100 00000 84297 06030 01259                                   | FSK 200/1000 | (AB) |
| F06 | 10-2 | 0810 | 8016  | Tue | 11100 00000 84297 06030 01259                                   | FSK 200/1000 | (AB) |
| F06 | 10-2 | 0820 | 6812  | Tue | 11100 00000 84297 06030 01259                                   | FSK 200/1000 | (AB) |
| F06 | 10-2 | 1200 | 11164 | Tue | 11166 70202 31528 09059 01459 and 11166 70202 48375 09060 01719 | FSK 200/1000 | (AB) |
| F06 | 10-2 | 1210 | 9164  | Tue | 11166 70202 31528 09059 01459 and 11166 70202 48375 09060 01719 | FSK 200/1000 | (AB) |
| F06 | 10-2 | 1220 | 7617  | Tue | 11166 70202 31528 09059 01459 and 11166 70202 48375 09060 01719 | FSK 200/1000 | (AB) |
| F06 | 10-2 | 1650 | 13377 | Tue | 11166 10053 78435 10001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 10-2 | 1700 | 12225 | Tue | 11166 10053 78435 10001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 10-2 | 1710 | 9139  | Tue | 11166 10053 78435 10001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 12-2 | 0700 | 11048 | Thu | 11166 70202 04587 11062 01739 and 11166 70202 65813 11063 01579 | FSK 200/1000 | (AB) |
| F06 | 12-2 | 0710 | 9244  | Thu | 11166 70202 04587 11062 01739 and 11166 70202 65813 11063 01579 | FSK 200/1000 | (AB) |
| F06 | 12-2 | 0720 | 6812  | Thu | 11166 70202 04587 11062 01739 and 11166 70202 65813 11063 01579 | FSK 200/1000 | (AB) |
| F06 | 12-2 | 1200 | 11164 | Thu | 11166 70202 04587 11062 01739 and 11166 70202 65813 11063 01579 | FSK 200/1000 | (AB) |
| F06 | 12-2 | 1210 | 9164  | Thu | 11166 70202 04587 11062 01739 and 11166 70202 65813 11063 01579 | FSK 200/1000 | (AB) |
| F06 | 12-2 | 1220 | 7617  | Thu | 11166 70202 04587 11062 01739 and 11166 70202 65813 11063 01579 | FSK 200/1000 | (AB) |
| F06 | 12-2 | 1330 | 19237 | Thu | 11166 80214 69257 12087 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 12-2 | 1340 | 14979 | Thu | 11166 80214 69257 12087 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |

|     |      |      |       |     |                                                                 |              |      |
|-----|------|------|-------|-----|-----------------------------------------------------------------|--------------|------|
| F06 | 12-2 | 1350 | 12205 | Thu | 11166 80214 69257 12087 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 13-2 | 0500 | 9318  | Fri | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB) |
| F06 | 13-2 | 0510 | 10783 | Fri | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB) |
| F06 | 13-2 | 0700 | 11048 | Fri | 11166 70202 94352 13013 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 13-2 | 0710 | 9244  | Fri | 11166 70202 94352 13013 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 13-2 | 0720 | 6812  | Fri | 11166 70202 94352 13013 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 14-2 | 1700 | 9481  | Sat | 11100 00000 24896 13036 02819                                   | FSK 200/1000 | (AB) |
| F06 | 14-2 | 1710 | 7362  | Sat | 11100 00000 24896 13036 02819                                   | FSK 200/1000 | (AB) |
| F06 | 14-2 | 1720 | 5783  | Sat | 11100 00000 24896 13036 02819                                   | FSK 200/1000 | (AB) |
| F06 | 15-2 | 0830 | 12167 | Sun | 11100 00000 24896 13036 02819                                   | FSK 200/1000 | (AB) |
| F06 | 15-2 | 0840 | 9944  | Sun | 11100 00000 24896 13036 02819                                   | FSK 200/1000 | (AB) |
| F06 | 15-2 | 0850 | 7362  | Sun | 11100 00000 24896 13036 02819                                   | FSK 200/1000 | (AB) |
| F06 | 15-2 | 1530 | 14983 | Sun | 11166 10053 95847 15001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 15-2 | 1540 | 13379 | Sun | 11166 10053 95847 15001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 15-2 | 1550 | 10948 | Sun | 11166 10053 95847 15001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 16-2 | 0800 | 10421 | Mon | 11100 00000 43581 13031 01199                                   | FSK 200/1000 | (AB) |
| F06 | 16-2 | 0810 | 8016  | Mon | 11100 00000 43581 13031 01199                                   | FSK 200/1000 | (AB) |
| F06 | 16-2 | 0820 | 6812  | Mon | 11100 00000 43581 13031 01199                                   | FSK 200/1000 | (AB) |
| F06 | 17-2 | 0030 | 9358  | Tue | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB) |
| F06 | 17-2 | 0040 | 8019  | Tue | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB) |
| F06 | 17-2 | 0050 | 7319  | Tue | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB) |
| F06 | 17-2 | 0700 | 11048 | Tue | 11166 70202 35791 16065 01699 and 11166 70202 86427 16066 01939 | FSK 200/1000 | (AB) |
| F06 | 17-2 | 0710 | 9244  | Tue | 11166 70202 35791 16065 01699 and 11166 70202 86427 16066 01939 | FSK 200/1000 | (AB) |
| F06 | 17-2 | 0720 | 6812  | Tue | 11166 70202 35791 16065 01699 and 11166 70202 86427 16066 01939 | FSK 200/1000 | (AB) |
| F06 | 17-2 | 0800 | 10421 | Tue | 11100 00000 43581 13031 01199                                   | FSK 200/1000 | (AB) |
| F06 | 17-2 | 0810 | 8016  | Tue | 11100 00000 43581 13031 01199                                   | FSK 200/1000 | (AB) |
| F06 | 17-2 | 0820 | 6812  | Tue | 11100 00000 43581 13031 01199                                   | FSK 200/1000 | (AB) |
| F06 | 17-2 | 1200 | 11164 | Tue | 11166 70202 35791 16065 01699 and 11166 70202 86427 16066 01939 | FSK 200/1000 | (AB) |
| F06 | 17-2 | 1210 | 9164  | Tue | 11166 70202 35791 16065 01699 and 11166 70202 86427 16066 01939 | FSK 200/1000 | (AB) |
| F06 | 17-2 | 1220 | 7617  | Tue | 11166 70202 35791 16065 01699 and 11166 70202 86427 16066 01939 | FSK 200/1000 | (AB) |
| F06 | 17-2 | 1650 | 13377 | Tue | 11166 10053 71824 17001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 17-2 | 1700 | 12225 | Tue | 11166 10053 71824 17001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 17-2 | 1710 | 9139  | Tue | 11166 10053 71824 17001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 19-2 | 0700 | 11048 | Thu | 11166 70202 41835 18068 01759 and 11166 70202 10846 18069 02039 | FSK 200/1000 | (AB) |
| F06 | 19-2 | 0710 | 9244  | Thu | 11166 70202 41835 18068 01759 and 11166 70202 10846 18069 02039 | FSK 200/1000 | (AB) |
| F06 | 19-2 | 0720 | 6812  | Thu | 11166 70202 41835 18068 01759 and 11166 70202 10846 18069 02039 | FSK 200/1000 | (AB) |
| F06 | 19-2 | 1200 | 11164 | Thu | 11166 70202 41835 18068 01759 and 11166 70202 10846 18069 02039 | FSK 200/1000 | (AB) |
| F06 | 19-2 | 1210 | 9164  | Thu | 11166 70202 41835 18068 01759 and 11166 70202 10846 18069 02039 | FSK 200/1000 | (AB) |
| F06 | 19-2 | 1220 | 7617  | Thu | 11166 70202 41835 18068 01759 and 11166 70202 10846 18069 02039 | FSK 200/1000 | (AB) |
| F06 | 19-2 | 1330 | 19237 | Thu | 11166 80214 53482 19051 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 19-2 | 1340 | 14979 | Thu | 11166 80214 53482 19051 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 19-2 | 1350 | 12205 | Thu | 11166 80214 53482 19051 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |

|     |      |      |       |     |                                                                 |              |      |
|-----|------|------|-------|-----|-----------------------------------------------------------------|--------------|------|
| F06 | 20-2 | 0500 | 9318  | Fri | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB) |
| F06 | 20-2 | 0510 | 10783 | Fri | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB) |
| F06 | 20-2 | 0510 | 12175 | Fri | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB) |
| F06 | 21-2 | 1700 | 9481  | Sat | 11100 00000 51623 20037 02259                                   | FSK 200/1000 | (AB) |
| F06 | 21-2 | 1710 | 7362  | Sat | 11100 00000 51623 20037 02259                                   | FSK 200/1000 | (AB) |
| F06 | 21-2 | 1720 | 5783  | Sat | 11100 00000 51623 20037 02259                                   | FSK 200/1000 | (AB) |
| F06 | 22-2 | 0830 | 12167 | Sun | 11100 00000 51623 20037 02259                                   | FSK 200/1000 | (AB) |
| F06 | 22-2 | 0840 | 9944  | Sun | 11100 00000 51623 20037 02259                                   | FSK 200/1000 | (AB) |
| F06 | 22-2 | 0850 | 7362  | Sun | 11100 00000 51623 20037 02259                                   | FSK 200/1000 | (AB) |
| F06 | 22-2 | 1530 | 14983 | Sun | 11166 10053 95184 22001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 22-2 | 1540 | 13379 | Sun | 11166 10053 95184 22001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 22-2 | 1550 | 10948 | Sun | 11166 10053 95184 22001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 23-2 | 0800 | 10421 | Mon | 11100 00000 25961 20032 04539                                   | FSK 200/1000 | (AB) |
| F06 | 23-2 | 0810 | 8016  | Mon | 11100 00000 25961 20032 04539                                   | FSK 200/1000 | (AB) |
| F06 | 23-2 | 0820 | 6812  | Mon | 11100 00000 25961 20032 04539                                   | FSK 200/1000 | (AB) |
| F06 | 24-2 | 0030 | 9358  | Tue | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB) |
| F06 | 24-2 | 0040 | 8019  | Tue | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB) |
| F06 | 24-2 | 0050 | 7319  | Tue | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB) |
| F06 | 24-2 | 0700 | 11048 | Tue | 11166 70202 62517 20071 01139 and 11166 70202 63875 20072 02339 | FSK 200/1000 | (AB) |
| F06 | 24-2 | 0710 | 9244  | Tue | 11166 70202 62517 20071 01139 and 11166 70202 63875 20072 02339 | FSK 200/1000 | (AB) |
| F06 | 24-2 | 0720 | 6812  | Tue | 11166 70202 62517 20071 01139 and 11166 70202 63875 20072 02339 | FSK 200/1000 | (AB) |
| F06 | 24-2 | 0800 | 10421 | Tue | 11100 00000 25961 20032 04539                                   | FSK 200/1000 | (AB) |
| F06 | 24-2 | 0810 | 8016  | Tue | 11100 00000 25961 20032 04539                                   | FSK 200/1000 | (AB) |
| F06 | 24-2 | 0820 | 6812  | Tue | 11100 00000 25961 20032 04539                                   | FSK 200/1000 | (AB) |
| F06 | 24-2 | 1200 | 11164 | Tue | 11166 70202 62517 20071 01139 and 11166 70202 63875 20072 02339 | FSK 200/1000 | (AB) |
| F06 | 24-2 | 1210 | 9164  | Tue | 11166 70202 62517 20071 01139 and 11166 70202 63875 20072 02339 | FSK 200/1000 | (AB) |
| F06 | 24-2 | 1220 | 7617  | Tue | 11166 70202 62517 20071 01139 and 11166 70202 63875 20072 02339 | FSK 200/1000 | (AB) |
| F06 | 24-2 | 1650 | 13377 | Tue | 11166 10053 15792 24001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 24-2 | 1700 | 12225 | Tue | 11166 10053 15792 24001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 24-2 | 1710 | 9139  | Tue | 11166 10053 15792 24001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 26-2 | 0700 | 11048 | Thu | 11166 70202 32587 25074 01819 and 11166 70202 19643 25075 02199 | FSK 200/1000 | (AB) |
| F06 | 26-2 | 0710 | 9244  | Thu | 11166 70202 32587 25074 01819 and 11166 70202 19643 25075 02199 | FSK 200/1000 | (AB) |
| F06 | 26-2 | 0720 | 6812  | Thu | 11166 70202 32587 25074 01819 and 11166 70202 19643 25075 02199 | FSK 200/1000 | (AB) |
| F06 | 26-2 | 1200 | 11164 | Thu | 11166 70202 32587 25074 01819 and 11166 70202 19643 25075 02199 | FSK 200/1000 | (AB) |
| F06 | 26-2 | 1210 | 9164  | Thu | 11166 70202 32587 25074 01819 and 11166 70202 19643 25075 02199 | FSK 200/1000 | (AB) |
| F06 | 26-2 | 1220 | 7617  | Thu | 11166 70202 32587 25074 01819 and 11166 70202 19643 25075 02199 | FSK 200/1000 | (AB) |
| F06 | 26-2 | 1330 | 19237 | Thu | 11166 80214 18349 26012 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 26-2 | 1340 | 14979 | Thu | 11166 80214 18349 26012 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 26-2 | 1350 | 12205 | Thu | 11166 80214 18349 26012 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 27-2 | 0500 | 9318  | Fri | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB) |
| F06 | 27-2 | 0510 | 10783 | Fri | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB) |
| F06 | 27-2 | 0510 | 12175 | Fri | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB) |



|      |      |      |       |     |                                                       |              |      |
|------|------|------|-------|-----|-------------------------------------------------------|--------------|------|
| F06  | 27-2 | 0700 | 11048 | Fri | 11166 70202 45781 27091 00049 00000 00000 00000 00000 | FSK 200/1000 | (AB) |
| F06  | 27-2 | 0710 | 9244  | Fri | 11166 70202 45781 27091 00049 00000 00000 00000 00000 | FSK 200/1000 | (AB) |
| F06  | 27-2 | 0720 | 6812  | Fri | 11166 70202 45781 27091 00049 00000 00000 00000 00000 | FSK 200/1000 | (AB) |
| F06  | 28-2 | 1700 | 9481  | Sat | 11100 00000 85271 27038 01769                         | FSK 200/1000 | (AB) |
| F06  | 28-2 | 1710 | 7362  | Sat | 11100 00000 85271 27038 01769                         | FSK 200/1000 | (AB) |
| F06  | 28-2 | 1720 | 5783  | Sat | 11100 00000 85271 27038 01769                         | FSK 200/1000 | (AB) |
| F06a | 1-2  | 1600 | 17429 | Sun | File 44438 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 1-2  | 1615 | 14421 | Sun | File 44438 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 1-2  | 1630 | 13373 | Sun | File 44438 (binary contents)                          | FSK 200/1000 | (PY) |
| F06a | 2-2  | 0700 | 11048 | Mon | File 44452 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 2-2  | 0715 | 9244  | Mon | File 44452 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 2-2  | 0730 | 7319  | Mon | File 44452 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 2-2  | 1200 | 11164 | Mon | File 44452 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 2-2  | 1215 | 9164  | Mon | File 44452 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 2-2  | 1230 | 7617  | Mon | File 44452 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 4-2  | 0600 | 13997 | Wed | File 44280 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 4-2  | 0615 | 15627 | Wed | File 44280 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 4-2  | 0630 | 17529 | Wed | File 44280 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 4-2  | 0700 | 11048 | Wed | File 44455 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 4-2  | 0715 | 9244  | Wed | File 44455 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 4-2  | 0730 | 7319  | Wed | File 44455 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 4-2  | 1200 | 11164 | Wed | File 44455 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 4-2  | 1215 | 9164  | Wed | File 44455 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 4-2  | 1230 | 7617  | Wed | File 44455 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 5-2  | 0600 | 13997 | Thu | File 44280 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 5-2  | 0615 | 15627 | Thu | File 44280 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 5-2  | 0630 | 17529 | Thu | File 44280 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 9-2  | 0700 | 11048 | Mon | File 44458 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 9-2  | 0715 | 9244  | Mon | File 44458 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 9-2  | 0730 | 7319  | Mon | File 44458 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 9-2  | 1200 | 11164 | Mon | File 44458 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 9-2  | 1215 | 9164  | Mon | File 44458 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 9-2  | 1230 | 7617  | Mon | File 44458 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 11-2 | 0600 | 13997 | Wed | File 14481 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 11-2 | 0615 | 15627 | Wed | File 14481 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 11-2 | 0630 | 17529 | Wed | File 14481 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 11-2 | 0700 | 11048 | Wed | File 44461 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 11-2 | 0715 | 9244  | Wed | File 44461 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 11-2 | 0730 | 7319  | Wed | File 44461 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 11-2 | 1200 | 11164 | Wed | File 44461 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 11-2 | 1215 | 9164  | Wed | File 44461 (binary contents)                          | FSK 200/1000 | (AB) |
| F06a | 11-2 | 1230 | 7617  | Wed | File 44461 (binary contents)                          | FSK 200/1000 | (AB) |

|      |      |      |       |     |                              |              |          |
|------|------|------|-------|-----|------------------------------|--------------|----------|
| F06a | 12-2 | 0600 | 13997 | Thu | File 14481 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 12-2 | 0615 | 15627 | Thu | File 14481 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 12-2 | 0630 | 17529 | Thu | File 14481 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 14-2 | 1600 | 24572 | Sat | File 44239 (binary contents) | FSK 200/1000 | (AB-ISL) |
| F06a | 14-2 | 1615 | 22875 | Sat | File 44239 (binary contents) | FSK 200/1000 | (AB-ISL) |
| F06a | 14-2 | 1630 | 19661 | Sat | File 44239 (binary contents) | FSK 200/1000 | (AB-ISL) |
| F06a | 15-2 | 1600 | 20757 | Sun | File 44239 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 15-2 | 1615 | 17445 | Sun | File 44239 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 15-2 | 1630 | 16323 | Sun | File 44239 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 16-2 | 0700 | 11048 | Mon | File 44464 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 16-2 | 0715 | 9244  | Mon | File 44464 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 16-2 | 0730 | 7319  | Mon | File 44464 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 16-2 | 1200 | 11164 | Mon | File 44464 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 16-2 | 1215 | 9164  | Mon | File 44464 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 16-2 | 1230 | 7617  | Mon | File 44464 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 18-2 | 0600 | 13997 | Wed | File 46482 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 18-2 | 0615 | 15627 | Wed | File 46482 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 18-2 | 0630 | 17529 | Wed | File 46482 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 18-2 | 0700 | 11048 | Wed | File 44467 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 18-2 | 0715 | 9244  | Wed | File 44467 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 18-2 | 0730 | 7319  | Wed | File 44467 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 18-2 | 1200 | 11164 | Wed | File 44467 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 18-2 | 1215 | 9164  | Wed | File 44467 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 18-2 | 1230 | 7617  | Wed | File 44467 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 18-2 | 1400 | 14373 | Wed | File 54402 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 18-2 | 1415 | 12223 | Wed | File 54402 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 18-2 | 1430 | 11156 | Wed | File 54402 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 19-2 | 0600 | 13997 | Thu | File 46482 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 19-2 | 0615 | 15627 | Thu | File 46482 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 19-2 | 0630 | 17529 | Thu | File 46482 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 21-2 | 1600 | 24572 | Sat | File 44440 (binary contents) | FSK 200/1000 | (AB-ISL) |
| F06a | 21-2 | 1615 | 22875 | Sat | File 44440 (binary contents) | FSK 200/1000 | (AB-ISL) |
| F06a | 21-2 | 1630 | 19661 | Sat | File 44440 (binary contents) | FSK 200/1000 | (AB-ISL) |
| F06a | 22-2 | 1600 | 20757 | Sun | File 44440 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 22-2 | 1615 | 17445 | Sun | File 44440 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 22-2 | 1630 | 16323 | Sun | File 44440 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 23-2 | 0700 | 11048 | Mon | File 44470 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 23-2 | 0715 | 9244  | Mon | File 44470 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 23-2 | 0730 | 7319  | Mon | File 44470 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 23-2 | 1200 | 11164 | Mon | File 44470 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 23-2 | 1215 | 9164  | Mon | File 44470 (binary contents) | FSK 200/1000 | (AB)     |
| F06a | 23-2 | 1230 | 7617  | Mon | File 44470 (binary contents) | FSK 200/1000 | (AB)     |



|      |      |      |       |     |                              |                                |          |
|------|------|------|-------|-----|------------------------------|--------------------------------|----------|
| F06a | 25-2 | 0600 | 13997 | Wed | File 44783 (binary contents) | FSK 200/1000                   | (AB)     |
| F06a | 25-2 | 0615 | 15627 | Wed | File 44783 (binary contents) | FSK 200/1000                   | (AB)     |
| F06a | 25-2 | 0630 | 17529 | Wed | File 44783 (binary contents) | FSK 200/1000                   | (AB)     |
| F06a | 25-2 | 0700 | 11048 | Wed | File 44473 (binary contents) | FSK 200/1000                   | (AB)     |
| F06a | 25-2 | 0715 | 9244  | Wed | File 44473 (binary contents) | FSK 200/1000                   | (AB)     |
| F06a | 25-2 | 0730 | 7319  | Wed | File 44473 (binary contents) | FSK 200/1000                   | (AB)     |
| F06a | 25-2 | 1200 | 11164 | Wed | File 44473 (binary contents) | FSK 200/1000                   | (AB)     |
| F06a | 25-2 | 1215 | 9164  | Wed | File 44473 (binary contents) | FSK 200/1000                   | (AB)     |
| F06a | 25-2 | 1230 | 7617  | Wed | File 44473 (binary contents) | FSK 200/1000                   | (AB)     |
| F06a | 26-2 | 0600 | 13997 | Thu | File 44783 (binary contents) | FSK 200/1000                   | (AB)     |
| F06a | 26-2 | 0615 | 15627 | Thu | File 44783 (binary contents) | FSK 200/1000                   | (AB)     |
| F06a | 26-2 | 0630 | 17529 | Thu | File 44783 (binary contents) | FSK 200/1000                   | (AB)     |
| F06a | 27-2 | 2000 | 6844  | Fri | File 40451 (binary contents) | FSK 200/1000                   | (AB)     |
| F06a | 27-2 | 2015 | 5375  | Fri | File 40451 (binary contents) | FSK 200/1000                   | (AB)     |
| F06a | 27-2 | 2030 | 4487  | Fri | File 40451 (binary contents) | FSK 200/1000                   | (AB)     |
| F06a | 28-2 | 0700 | 12154 | Sat | File 40451 (binary contents) | FSK 200/1000                   | (AB)     |
| F06a | 28-2 | 0715 | 11063 | Sat | File 40451 (binary contents) | FSK 200/1000                   | (AB)     |
| F06a | 28-2 | 0730 | 10218 | Sat | File 40451 (binary contents) | FSK 200/1000                   | (AB)     |
| F06a | 28-2 | 1600 | 24572 | Sat | File 45441 (binary contents) | FSK 200/1000                   | (AB-ISL) |
| F06a | 28-2 | 1615 | 22875 | Sat | File 45441 (binary contents) | FSK 200/1000                   | (AB-ISL) |
| F06a | 28-2 | 1630 | 19661 | Sat | File 45441 (binary contents) | FSK 200/1000                   | (AB)     |
| F07  | 3-2  | 2100 | 8152  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)     |
| F07  | 3-2  | 2110 | 7934  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)     |
| F07  | 3-2  | 2120 | 7694  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)     |
| F07  | 3-2  | 2130 | 7454  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)     |
| F07  | 3-2  | 2140 | 6877  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)     |
| F07  | 3-2  | 2150 | 5437  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)     |
| F07  | 5-2  | 2100 | 8152  | Thu | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)     |
| F07  | 5-2  | 2110 | 7934  | Thu | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)     |
| F07  | 5-2  | 2120 | 7694  | Thu | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)     |
| F07  | 5-2  | 2130 | 7454  | Thu | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)     |
| F07  | 5-2  | 2140 | 6877  | Thu | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)     |
| F07  | 5-2  | 2150 | 5437  | Thu | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)     |
| F07  | 10-2 | 2100 | 8152  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)     |
| F07  | 10-2 | 2110 | 7934  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)     |
| F07  | 10-2 | 2120 | 7694  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)     |
| F07  | 10-2 | 2130 | 7454  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)     |
| F07  | 10-2 | 2140 | 6877  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)     |
| F07  | 10-2 | 2150 | 5437  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)     |
| F07  | 12-2 | 2100 | 8152  | Thu | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)     |
| F07  | 12-2 | 2110 | 7934  | Thu | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)     |
| F07  | 12-2 | 2120 | 7694  | Thu | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)     |

|     |      |      |       |     |                                                                                   |                                |      |
|-----|------|------|-------|-----|-----------------------------------------------------------------------------------|--------------------------------|------|
| F07 | 12-2 | 2130 | 7454  | Thu | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| F07 | 12-2 | 2140 | 6877  | Thu | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| F07 | 12-2 | 2150 | 5437  | Thu | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| F07 | 17-2 | 2100 | 8152  | Tue | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| F07 | 17-2 | 2110 | 7934  | Tue | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| F07 | 17-2 | 2120 | 7694  | Tue | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| F07 | 17-2 | 2130 | 7454  | Tue | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| F07 | 17-2 | 2140 | 6877  | Tue | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| F07 | 17-2 | 2150 | 5437  | Tue | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| F07 | 19-2 | 2100 | 8152  | Thu | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| F07 | 19-2 | 2110 | 7934  | Thu | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| F07 | 19-2 | 2120 | 7694  | Thu | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| F07 | 19-2 | 2130 | 7454  | Thu | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| F07 | 19-2 | 2140 | 6877  | Thu | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| F07 | 19-2 | 2150 | 5437  | Thu | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| F07 | 24-2 | 2100 | 8152  | Tue | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| F07 | 24-2 | 2110 | 7934  | Tue | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| F07 | 24-2 | 2120 | 7694  | Tue | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| F07 | 24-2 | 2130 | 7454  | Tue | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| F07 | 24-2 | 2140 | 6877  | Tue | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| F07 | 24-2 | 2150 | 5437  | Tue | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| F07 | 25-2 | 2120 | 7694  | Wed | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| F07 | 26-2 | 2100 | 8152  | Thu | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| F07 | 26-2 | 2110 | 7934  | Thu | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| F07 | 26-2 | 2130 | 7454  | Thu | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| F07 | 26-2 | 2140 | 6877  | Thu | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| F07 | 26-2 | 2150 | 5437  | Thu | Russian intel.                                                                    | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB) |
| KRE | 9-2  | 1212 | 16252 | Mon | DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva                  | DPRK ARQ 600/600 LSB           | (AB) |
| KRE | 9-2  | 1213 | 16203 | Mon | Unid DPRK embassy wkg DPRK embassy Moscow                                         | DPRK ARQ 600/600 LSB           | (AB) |
| KRE | 10-2 | 1301 | 14250 | Tue | DPRK embassy Rome wkg DPRK embassy Moscow                                         | DPRK ARQ 1200/600 LSB          | (AB) |
| KRE | 10-2 | 1302 | 14150 | Tue | DPRK embassy Moscow wkg Permanent Mission to the UN, Geneva                       | DPRK ARQ 600/600 LSB           | (AB) |
| KRE | 11-2 | 0930 | 14300 | Wed | DPRK embassy Moscow: msg 373 to DPRK embassy Sofia. Chat: ok sk ok sk ok sk       | DPRK ARQ 600/600 LSB           | (AB) |
| KRE | 11-2 | 0930 | 16252 | Wed | DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva                  | DPRK ARQ 600/600 LSB           | (AB) |
| KRE | 11-2 | 0937 | 14300 | Wed | DPRK embassy Moscow clg DPRK embassy Berlin                                       | DPRK ARQ 600/600 LSB           | (AB) |
| KRE | 11-2 | 0938 | 16250 | Wed | DPRK embassy Rome clg DPRK embassy Moscow                                         | DPRK ARQ 1200/600 LSB          | (AB) |
| KRE | 11-2 | 0948 | 16250 | Wed | DPRK embassy Rome wkg DPRK embassy Moscow                                         | DPRK ARQ 1200/600 LSB          | (AB) |
| KRE | 12-2 | 0811 | 13200 | Thu | DPRK embassy Moscow clg DPRK embassy Stockholm                                    | DPRK ARQ 600/600 LSB           | (AB) |
| KRE | 12-2 | 0815 | 13200 | Thu | DPRK embassy Moscow clg DPRK embassy Warsaw                                       | DPRK ARQ 600/600 LSB           | (AB) |
| KRE | 12-2 | 1045 | 16252 | Thu | DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva                  | DPRK ARQ 600/600 LSB           | (AB) |
| KRE | 12-2 | 1057 | 11090 | Thu | DPRK embassy Rome wkg DPRK embassy Moscow                                         | DPRK ARQ 1200/600 LSB          | (AB) |
| KRE | 12-2 | 1300 | 14150 | Thu | DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva. Chat: ok sk 1rt | DPRK ARQ 600/600 LSB           | (AB) |

|            |      |      |       |     |                                                                                             |                       |        |
|------------|------|------|-------|-----|---------------------------------------------------------------------------------------------|-----------------------|--------|
| <b>KRE</b> | 12-2 | 1315 | 14150 | Thu | DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva. Changed freq to 16150 khz | DPRK ARQ 600/600 LSB  | (AB)   |
| <b>KRE</b> | 12-2 | 1318 | 16150 | Thu | DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva                            | DPRK ARQ 600/600 LSB  | (AB)   |
| <b>KRE</b> | 12-2 | 1525 | 16252 | Thu | DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva                            | DPRK ARQ 600/600 LSB  | (AB)   |
| <b>KRE</b> | 16-2 | 0700 | 14100 | Mon | DPRK embassy Rome wkg DPRK embassy Moscow                                                   | DPRK ARQ 1200/600 LZB | (AB)   |
| <b>KRE</b> | 17-2 | 0730 | 14300 | Tue | DPRK embassy Moscow wkg DPRK embassy Berlin                                                 | DPRK ARQ 600/600 LSB  | (AB)   |
| <b>KRE</b> | 17-2 | 0732 | 14150 | Tue | DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva                            | DPRK ARQ 600/600 LSB  | (AB)   |
| <b>KRE</b> | 22-2 | 0721 | 14150 | Sun | DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva                            | DPEK ARQ 600/600 LSB  | (AB)   |
| <b>KRE</b> | 23-2 | 1220 | 13120 | Mon | Unid DPRK embassy wkg DPRK embassy Moscow                                                   | DPRK ARQ 600/600 LSB  | (AB)   |
| <b>KRE</b> | 24-2 | 0633 | 14300 | Tue | DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva                            | DPRK ARQ 600/600 LSB  | (AB)   |
| <b>KRE</b> | 24-2 | 0704 | 17410 | Tue | DPRK embassy Moscow wkg DPRK embassy Prague                                                 | DPRK ARQ 1200/600 LSB | (AB)   |
| <b>KRE</b> | 24-2 | 0723 | 14150 | Tue | DPRK embassy Moscow wkg DPRK embassy Sofia                                                  | DPRK ARQ 600/600 LSB  | (AB)   |
| <b>KRE</b> | 24-2 | 0812 | 14250 | Tue | DPRK embassy Moscow wkg DPRK embassy Bucharest                                              | DPRK ARQ 600/600 LSB  | (AB)   |
| <b>KRE</b> | 24-2 | 0813 | 15555 | Tue | Unid DPRK embassy wkg DPRK embassy Moscow                                                   | DPRK ARQ 600/600 LSB  | (AB)   |
| <b>M01</b> | 1-2  | 0700 | 5465  | Sun | 197 589 589 30 30 == 67687 09867 30390 ... 30978 33987 50978 589 589 30 30 000              | CW                    | (AB)   |
| <b>M01</b> | 3-2  | 1800 | 5320  | Tue | 197 374 374 30 30 == 47564 09976 36543 ... 46534 94764 03766 == 374 374 30 30 000           | CW                    | (AB)   |
| <b>M01</b> | 3-2  | 2000 | 4490  | Tue | 197 917 917 30 30 == 93765 01909 35467 ... 25412 00291 93765 == 917 917 30 30 000           | CW                    | (AB)   |
| <b>M01</b> | 5-2  | 2000 | 4490  | Thu | 197 185 185 30 30 == 50603 29580 75049 ... 48703 28560 39680 == 185 185 30 30 000           | CW                    | (AB)   |
| <b>M01</b> | 7-2  | 1500 | 5810  | Sat | 197 831 831 30 30 == 19376 37654 00336 ... 01765 11882 16543 == 831 831 30 30 000           | CW                    | (AB)   |
| <b>M01</b> | 8-2  | 0700 | 5465  | Sun | 197 844 844 30 30 == = 39476 03645 18662 ... 57875 01765 26541 == = 844 844 30 30 000       | CW                    | (AB)   |
| <b>M01</b> | 10-2 | 1800 | 5320  | Tue | 197 241 241 30 30 == 42144 78872 76523 ... 25769 79 75234 26522 == 241 241 30 30 000        | CW                    | (AB-S) |
| <b>M01</b> | 10-2 | 2000 | 4490  | Tue | 197 521 521 30 30 == 53767 85685 85850 ... 75823 75751 7575 == 521 521 30 30 000            | CW                    | (AB)   |
| <b>M01</b> | 12-2 | 2000 | 4490  | Thu | 197 712 712 30 30 == 09301 57003 22869 ... 25480 40710 58208 == 712 712 30 30 000           | CW                    | (AB)   |
| <b>M01</b> | 14-2 | 1500 | 5810  | Sat | 197 901 901 30 30 == 89980 90901 88774 ... 91919 47288 75752 == 901 901 30 30 000           | CW                    | (AB)   |
| <b>M01</b> | 15-2 | 0700 | 5465  | Sun | 197 775 775 30 30 == 45654 67788 93572 ... 38572 57571 75899 == 775 775 30 30 000           | CW                    | (AB)   |
| <b>M01</b> | 17-2 | 1800 | 5320  | Tue | 197 ... (poor signal)                                                                       | CW                    | (AB)   |
| <b>M01</b> | 17-2 | 2000 | 4490  | Tue | 197 263 263 30 30 == 23845 28567 90871 ... 78902 92873 23845 == 263 263 30 30 000           | CW                    | (AB)   |
| <b>M01</b> | 19-2 | 1800 | 5320  | Thu | 197 765 765 30 30 == 05465 59303 93036 ... 49579 47365 55774 == 765 765 30 30 000           | CW                    | (AB)   |
| <b>M01</b> | 19-2 | 2000 | 4490  | Thu | 197 354 354 30 30 == 46352 48756 09968 ... 10288 32115 84654 == 354 354 30 30 000           | CW                    | (AB)   |
| <b>M01</b> | 21-2 | 1500 | 5810  | Sat | 197 163 163 30 30 == 37419 62739 15219 ... 85879 15629 75804 163 163 30 30 000              | CW                    | (AB)   |

|            |      |      |       |     |                                                                                     |    |      |
|------------|------|------|-------|-----|-------------------------------------------------------------------------------------|----|------|
| <b>M01</b> | 22-2 | 0700 | 5465  | Sun | 197 621 621 30 30 = = 81907 90824 71035 ... 21369 91057 21459 = = 621 621 30 30 000 | CW | (AB) |
| <b>M01</b> | 24-2 | 1800 | 5320  | Tue | 197 424 424 30 30 = = 40985 60978 28176 ... 10937 20918 44980 = = 424 424 30 30 000 | CW | (AB) |
| <b>M01</b> | 26-2 | 1800 | 5320  | Thu | 197 532 532 30 30 = = 65451 66334 09001 ... 75662 87110 83332 = = 532 532 30 30 000 | CW | (AB) |
| <b>M01</b> | 26-2 | 2000 | 4490  | Thu | 197 904 904 30 30 = = 90888 09901 89982 ... 98895 44255 67552 = = 904 904 30 30 000 | CW | (AB) |
| <b>M01</b> | 28-2 | 1500 | 5810  | Sat | 197 882 882 30 30 = = 55876 10988 22543 ... 47658 59098 58769 = = 882 882 30 30 000 | CW | (AB) |
| <b>M12</b> | 1-2  | 2310 | 12137 | Sun | 192 192 192 1 623 115 623 115 06134 75751 42471 ... 52127 57012 71333 000 000       | CW | (RL) |
| <b>M12</b> | 1-2  | 2330 | 10937 | Sun | 192 192 192 1 623 115 623 115 06134 75751 42471 ... 52127 57012 71333 000 000       | CW | (RL) |
| <b>M12</b> | 1-2  | 2350 | 10237 | Sun | 192 192 192 1 623 115 623 115 06134 75751 42471 ... 52127 57012 71333 000 000       | CW | (RL) |
| <b>M12</b> | 4-2  | 2310 | 12137 | Wed | 192 192 192 1 975 219 975 219 99369 14250 64738 ... 31081 23771 76910 000 000       | CW | (RL) |
| <b>M12</b> | 4-2  | 2330 | 10937 | Wed | 192 192 192 1 975 219 975 219 99369 14250 64738 ... 31081 23771 76910 000 000       | CW | (RL) |
| <b>M12</b> | 4-2  | 2350 | 10237 | Wed | 192 192 192 1 975 219 975 219 99369 14250 64738 ... 31081 23771 76910 000 000       | CW | (RL) |
| <b>M12</b> | 5-2  | 1900 | 11564 | Thu | 258 258 258 1 2973 166 2973 166 76675 65170 37997 ... 04411 87471 81476 000 000     | CW | (AB) |
| <b>M12</b> | 5-2  | 1920 | 10487 | Thu | 258 258 258 1 2973 166 2973 166 76675 65170 37997 ... 04411 87471 81476 000 000     | CW | (AB) |
| <b>M12</b> | 5-2  | 1940 | 9319  | Thu | 258 258 258 1 2973 166 2973 166 76675 65170 37997 ... 04411 87471 81476 000 000     | CW | (AB) |
| <b>M12</b> | 6-2  | 2200 | 6982  | Fri | 951 951 951 1 2927 126 2927 126 54462 95993 55037 ... 92653 87346 31508 000 000     | CW | (AB) |
| <b>M12</b> | 6-2  | 2220 | 7593  | Fri | 951 951 951 1 2927 126 2927 126 54462 95993 55037 ... 92653 87346 31508 000 000     | CW | (AB) |
| <b>M12</b> | 6-2  | 2240 | 8187  | Fri | 951 951 951 1 2927 126 2927 126 54462 95993 55037 ... 92653 87346 31508 000 000     | CW | (AB) |
| <b>M12</b> | 7-2  | 1900 | 11564 | Sat | 258 258 258 1 2973 166 2973 166 76675 65170 37997 ... 04411 87471 81476 000 000     | CW | (AB) |
| <b>M12</b> | 7-2  | 1920 | 10487 | Sat | 258 258 258 1 2973 166 2973 166 76675 65170 37997 ... 04411 87471 81476 000 000     | CW | (AB) |
| <b>M12</b> | 7-2  | 1940 | 9319  | Sat | 258 258 258 1 2973 166 2973 166 76675 65170 37997 ... 04411 87471 81476 000 000     | CW | (AB) |
| <b>M12</b> | 7-2  | 2200 | 6982  | Sat | 951 951 951 1 2927 126 2927 126 54462 95993 55037 ... 92653 87346 31508 000 000     | CW | (AB) |
| <b>M12</b> | 7-2  | 2220 | 7593  | Sat | 951 951 951 1 2927 126 2927 126 54462 95993 55037 ... 92653 87346 31508 000 000     | CW | (AB) |
| <b>M12</b> | 7-2  | 2240 | 8187  | Sat | 951 951 951 1 2927 126 2927 126 54462 95993 55037 ... 92653 87346 31508 000 000     | CW | (AB) |
| <b>M12</b> | 8-2  | 1900 | 12135 | Sun | 573 573 573 1 2623 103 2623 103 ... (too poor to copy)                              | CW | (AB) |
| <b>M12</b> | 8-2  | 1920 | 11452 | Sun | 573 573 573 1 2623 103 2623 103 ... (too poor to copy)                              | CW | (AB) |
| <b>M12</b> | 8-2  | 1940 | 10627 | Sun | 573 573 573 1 2623 103 2623 103 ... (too poor to copy)                              | CW | (AB) |
| <b>M12</b> | 11-2 | 2330 | 10937 | Wed | 192 192 192 1 3531 184 3531 184 56669 49475 65697 ... 60263 73608 17991 000 000     | CW | (RL) |
| <b>M12</b> | 11-2 | 2350 | 10237 | Wed | 192 192 192 1 3531 184 3531 184 56669 49475 65697 ... 60263 73608 17991 000 000     | CW | (RL) |
| <b>M12</b> | 12-2 | 1900 | 11564 | Thu | 258 258 258 1 6959 155 6959 155 86280 05702 38675 ... 35721 07693 30886 000 000     | CW | (AB) |
| <b>M12</b> | 12-2 | 1920 | 10487 | Thu | 258 258 258 1 6959 155 6959 155 86280 05702 38675 ... 35721 07693 30886 000 000     | CW | (AB) |
| <b>M12</b> | 12-2 | 1940 | 9319  | Thu | 258 258 258 1 6959 155 6959 155 86280 05702 38675 ... 35721 07693 30886 000 000     | CW | (AB) |
| <b>M12</b> | 13-2 | 2200 | 6982  | Fri | 951 951 951 1 4264 188 4264 188 29670 76134 47615 ... 66389 74539 92565 000 000     | CW | (AB) |
| <b>M12</b> | 13-2 | 2220 | 7593  | Fri | 951 951 951 1 4264 188 4264 188 29670 76134 47615 ... 66389 74539 92565 000 000     | CW | (AB) |
| <b>M12</b> | 13-2 | 2240 | 8187  | Fri | 951 951 951 1 4264 188 4264 188 29670 76134 47615 ... 66389 74539 92565 000 000     | CW | (AB) |
| <b>M12</b> | 14-2 | 1900 | 11564 | Sat | 258 258 258 1 6959 155 6959 155 86280 05702 38875 ... 35721 07693 30886 000 000     | CW | (AB) |
| <b>M12</b> | 14-2 | 1920 | 10487 | Sat | 258 258 258 1 6959 155 6959 155 86280 05702 38875 ... 35721 07693 30886 000 000     | CW | (AB) |
| <b>M12</b> | 14-2 | 1940 | 9319  | Sat | 258 258 258 1 6959 155 6959 155 86280 05702 38875 ... 35721 07693 30886 000 000     | CW | (AB) |

|     |      |      |       |     |                                                                                                              |    |      |
|-----|------|------|-------|-----|--------------------------------------------------------------------------------------------------------------|----|------|
| M12 | 14-2 | 2200 | 6982  | Sat | 951 951 951 1 4264 188 4264 188 29670 76134 47615 ... 66389 74539 92565 000 000                              | CW | (AB) |
| M12 | 14-2 | 2220 | 7593  | Sat | 951 951 951 1 4264 188 4264 188 29670 76134 47615 ... 66389 74539 92565 000 000                              | CW | (AB) |
| M12 | 14-2 | 2240 | 8187  | Sat | 951 951 951 1 4264 188 4264 188 29670 76134 47615 ... 66389 74539 92565 000 000                              | CW | (AB) |
| M12 | 15-2 | 1900 | 12135 | Sun | 573 573 573 1 ...                                                                                            | CW | (AB) |
| M12 | 15-2 | 1920 | 11452 | Sun | 573 573 573 1 ...                                                                                            | CW | (AB) |
| M12 | 15-2 | 1940 | 10627 | Sun | 573 573 573 1 ...                                                                                            | CW | (AB) |
| M12 | 16-2 | 1900 | 12135 | Mon | 573 573 573 1 ... (too poor to copy)                                                                         | CW | (AB) |
| M12 | 19-2 | 1900 | 11564 | Thu | 258 258 258 1 2750 159 2750 159 16853 07567 55549 ... 12925 51087 66642 000 000                              | CW | (AB) |
| M12 | 19-2 | 1920 | 10487 | Thu | 258 258 258 1 2750 159 2750 159 16853 07567 55549 ... 12925 51087 66642 000 000                              | CW | (AB) |
| M12 | 19-2 | 1940 | 9319  | Thu | 258 258 258 1 2750 159 2750 159 16853 07567 55549 ... 12925 51087 66642 000 000                              | CW | (AB) |
| M12 | 20-2 | 2200 | 6982  | Fri | 951 951 951 1 4264 188 4264 188 29670 76134 47615 ... 66389 74539 92565 000 000                              | CW | (AB) |
| M12 | 20-2 | 2220 | 7593  | Fri | 951 951 951 1 4264 188 4264 188 29670 76134 47615 ... 66389 74539 92565 000 000                              | CW | (AB) |
| M12 | 20-2 | 2240 | 8187  | Fri | 951 951 951 1 4264 188 4264 188 29670 76134 47615 ... 66389 74539 92565 000 000                              | CW | (AB) |
| M12 | 21-2 | 1800 | 11564 | Sat | 258 258 258 1 2750 159 2750 159 16853 07567 55549 ...                                                        | CW | (AB) |
| M12 | 21-2 | 1820 | 10487 | Sat | 258 258 258 1 2750 159 2750 159 16853 07567 55549 ...                                                        | CW | (AB) |
| M12 | 21-2 | 1840 | 9319  | Sat | 258 258 258 1 2750 159 2750 159 16853 07567 55549 ...                                                        | CW | (AB) |
| M12 | 21-2 | 1900 | 11564 | Sat | 258 258 258 1 2750 159 2750 159 16853 07567 55549 ... 12925 51087 66642 000 000                              | CW | (AB) |
| M12 | 21-2 | 1920 | 10487 | Sat | 258 258 258 1 2750 159 2750 159 16853 07567 55549 ... 12925 51087 66642 000 000                              | CW | (AB) |
| M12 | 21-2 | 1940 | 9319  | Sat | 258 258 258 1 2750 159 2750 159 16853 07567 55549 ... 12925 51087 66642 000 000                              | CW | (AB) |
| M12 | 21-2 | 2200 | 6982  | Sat | 951 951 951 1 4264 188 4264 188 29670 76134 47615 ... 66389 74539 92565 000 000                              | CW | (AB) |
| M12 | 21-2 | 2220 | 7593  | Sat | 951 951 951 1 4264 188 4264 188 29670 76134 47615 ... 66389 74539 92565 000 000                              | CW | (AB) |
| M12 | 21-2 | 2240 | 8187  | Sat | 951 951 951 1 4264 188 4264 188 29670 76134 47615 ... 66389 74539 92565 000 000                              | CW | (AB) |
| M12 | 22-2 | 1900 | 12135 | Sun | 573 573 573 1 8127 16 8127 116 66448 41910 23123 ...                                                         | CW | (AB) |
| M12 | 22-2 | 1920 | 11452 | Sun | 573 573 573 1 8127 16 8127 116 66448 41910 23123 ...                                                         | CW | (AB) |
| M12 | 22-2 | 1940 | 10627 | Sun | 573 573 573 1 8127 16 8127 116 66448 41910 23123 ...                                                         | CW | (AB) |
| M12 | 25-2 | 2310 | 12137 | Wed | 192 192 192 000                                                                                              | CW | (TM) |
| M12 | 25-2 | 2330 | 10937 | Wed | 192 192 192 000                                                                                              | CW | (TM) |
| M12 | 26-2 | 1900 | 11564 | Thu | 258 258 258 1 951 35 951 35 57527 71822 32048 ... 04053 24656 90089 000 000                                  | CW | (AB) |
| M12 | 26-2 | 1920 | 10487 | Thu | 258 258 258 1 951 35 951 35 57527 71822 32048 ... 04053 24656 90089 000 000                                  | CW | (AB) |
| M12 | 26-2 | 1940 | 9319  | Thu | 258 258 258 1 951 35 951 35 57527 71822 32048 ... 04053 24656 90089 000 000                                  | CW | (AB) |
| M12 | 27-2 | 2200 | 6982  | Fri | 951 951 951 1 4411 62 4411 62 63488 04782 95791 ... 70986 09181 94132 000 000                                | CW | (AB) |
| M12 | 27-2 | 2220 | 7593  | Fri | 951 951 951 1 4411 62 4411 62 63488 04782 95791 ... 70986 09181 94132 000 000                                | CW | (AB) |
| M12 | 27-2 | 2240 | 8187  | Fri | 951 951 951 1 4411 62 4411 62 63488 04782 95791 ... 70986 09181 94132 000 000                                | CW | (AB) |
| M12 | 28-2 | 1900 | 11564 | Sat | 258 258 258 1 951 35 951 35 57527 71822 42048 ... 71045 46040 17980 17909 86709<br>04053 24656 90089 000 000 | CW | (AB) |
| M12 | 28-2 | 1920 | 10487 | Sat | 258 258 258 1 951 35 951 35 57527 71822 42048 ... 71045 46040 17980 17909 86709<br>04053 24656 90089 000 000 | CW | (AB) |
| M12 | 28-2 | 1940 | 9319  | Sat | 258 258 258 1 951 35 951 35 57527 71822 42048 ... 71045 46040 17980 17909 86709<br>04053 24656 90089 000 000 | CW | (AB) |
| M12 | 28-2 | 2200 | 6982  | Sat | 951 951 951 1 4411 62 4411 62 63488 04782 95791 ... 70986 09181 94132 000 000                                | CW | (AB) |
| M12 | 28-2 | 2220 | 7593  | Sat | 951 951 951 1 4411 62 4411 62 63488 04782 95791 ... 70986 09181 94132 000 000                                | CW | (AB) |
| M12 | 28-2 | 2240 | 8187  | Sat | 951 951 951 1 4411 62 4411 62 63488 04782 95791 ... 70986 09181 94132 000 000                                | CW | (AB) |

|     |     |      |      |     |              |    |        |
|-----|-----|------|------|-----|--------------|----|--------|
| M23 | 1-2 | 0000 | 6961 | Sun | 0 (R10m 36s) | CW | (AB)   |
| M23 | 1-2 | 0100 | 6961 | Sun | 0 (R10m 36s) | CW | (AB)   |
| M23 | 1-2 | 0200 | 6961 | Sun | 0 (R10m 36s) | CW | (AB)   |
| M23 | 1-2 | 0300 | 6961 | Sun | 0 (R10m 36s) | CW | (AB)   |
| M23 | 1-2 | 0400 | 6961 | Sun | 0 (R10m 36s) | CW | (AB)   |
| M23 | 1-2 | 0500 | 6961 | Sun | 0 (R10m 36s) | CW | (AB)   |
| M23 | 1-2 | 0600 | 6961 | Sun | 0 (R10m 36s) | CW | (AB)   |
| M23 | 1-2 | 0700 | 6961 | Sun | 0 (R10m 36s) | CW | (AB)   |
| M23 | 1-2 | 0800 | 6961 | Sun | 0 (R10m 36s) | CW | (AB)   |
| M23 | 1-2 | 0900 | 6961 | Sun | 0 (R10m 36s) | CW | (AB)   |
| M23 | 1-2 | 1000 | 6961 | Sun | 0 (R10m 36s) | CW | (AB)   |
| M23 | 1-2 | 1100 | 6961 | Sun | 0 (R10m 36s) | CW | (AB)   |
| M23 | 1-2 | 1200 | 6961 | Sun | 0 (R10m 36s) | CW | (AB)   |
| M23 | 1-2 | 1300 | 6961 | Sun | 0 (R10m 36s) | CW | (AB)   |
| M23 | 1-2 | 1400 | 6961 | Sun | 0 (R10m 36s) | CW | (AB)   |
| M23 | 1-2 | 1500 | 6961 | Sun | 0 (R10m 36s) | CW | (AB)   |
| M23 | 1-2 | 1600 | 6961 | Sun | 0 (R10m 36s) | CW | (AB)   |
| M23 | 1-2 | 1700 | 6961 | Sun | 0 (R10m 36s) | CW | (AB)   |
| M23 | 1-2 | 1800 | 6961 | Sun | 0 (R10m 36s) | CW | (AB)   |
| M23 | 1-2 | 1900 | 6961 | Sun | 0 (R10m 36s) | CW | (AB)   |
| M23 | 1-2 | 2000 | 6961 | Sun | 0 (R10m 36s) | CW | (AB)   |
| M23 | 1-2 | 2100 | 6961 | Sun | 0 (R10m 36s) | CW | (AB)   |
| M23 | 1-2 | 2200 | 6961 | Sun | 0 (R10m 36s) | CW | (AB)   |
| M23 | 1-2 | 2300 | 6961 | Sun | 0 (R10m 36s) | CW | (AB)   |
| M23 | 2-2 | 0000 | 6961 | Mon | 0 (R10m 36s) | CW | (AB)   |
| M23 | 2-2 | 0100 | 6961 | Mon | 0 (R10m 36s) | CW | (AB)   |
| M23 | 2-2 | 0200 | 6961 | Mon | 0 (R10m 36s) | CW | (AB)   |
| M23 | 2-2 | 0300 | 6961 | Mon | 0 (R10m 36s) | CW | (AB)   |
| M23 | 2-2 | 0400 | 6961 | Mon | 0 (R10m 36s) | CW | (AB)   |
| M23 | 2-2 | 0500 | 6961 | Mon | 0 (R10m 36s) | CW | (AB)   |
| M23 | 2-2 | 0600 | 6961 | Mon | 0 (R10m 36s) | CW | (AB)   |
| M23 | 2-2 | 0700 | 6961 | Mon | 0 (R10m 36s) | CW | (AB)   |
| M23 | 2-2 | 0800 | 6961 | Mon | 0 (R10m 36s) | CW | (AB-F) |
| M23 | 2-2 | 0900 | 6961 | Mon | 0 (R10m 36s) | CW | (AB-F) |
| M23 | 2-2 | 1000 | 6961 | Mon | 0 (R10m 36s) | CW | (AB-F) |
| M23 | 2-2 | 1100 | 6961 | Mon | 0 (R10m 36s) | CW | (AB-F) |
| M23 | 2-2 | 1200 | 6961 | Mon | 0 (R10m 36s) | CW | (AB-F) |
| M23 | 2-2 | 1300 | 6961 | Mon | 0 (R10m 36s) | CW | (AB-F) |
| M23 | 2-2 | 1400 | 6961 | Mon | 0 (R10m 36s) | CW | (AB-F) |
| M23 | 2-2 | 1500 | 6961 | Mon | 0 (R10m 36s) | CW | (AB-F) |
| M23 | 2-2 | 1600 | 6961 | Mon | 0 (R10m 36s) | CW | (AB)   |
| M23 | 2-2 | 1700 | 6961 | Mon | 0 (R10m 36s) | CW | (AB-F) |



|     |     |      |       |     |                                                                                            |    |        |
|-----|-----|------|-------|-----|--------------------------------------------------------------------------------------------|----|--------|
| M23 | 2-2 | 1800 | 6961  | Mon | 0 (R10m 36s)                                                                               | CW | (AB-F) |
| M23 | 2-2 | 1900 | 6961  | Mon | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 2-2 | 2000 | 6961  | Mon | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 2-2 | 2100 | 6961  | Mon | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 2-2 | 2200 | 6961  | Mon | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 2-2 | 2300 | 6961  | Mon | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 3-2 | 0000 | 6961  | Tue | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 3-2 | 0100 | 6961  | Tue | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 3-2 | 0200 | 6961  | Tue | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 3-2 | 0300 | 6961  | Tue | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 3-2 | 0400 | 6961  | Tue | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 3-2 | 0500 | 6961  | Tue | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 3-2 | 0600 | 6961  | Tue | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 3-2 | 0700 | 6961  | Tue | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 3-2 | 0800 | 6961  | Tue | 0 (R10m 36s)                                                                               | CW | (AB-F) |
| M23 | 3-2 | 0900 | 6961  | Tue | 0 (R10m 36s)                                                                               | CW | (AB-F) |
| M23 | 3-2 | 1000 | 18412 | Tue | 5 (22x) repeated. Inaudible after 1700z                                                    | CW | (AB)   |
| M23 | 3-2 | 1000 | 6961  | Tue | 0 (R10m 36s)                                                                               | CW | (AB-F) |
| M23 | 3-2 | 1100 | 6961  | Tue | 0 (R10m 36s)                                                                               | CW | (AB-F) |
| M23 | 3-2 | 1200 | 6961  | Tue | 0 (R10m 36s)                                                                               | CW | (AB-F) |
| M23 | 3-2 | 1300 | 6961  | Tue | 0 (R10m 36s)                                                                               | CW | (AB-F) |
| M23 | 3-2 | 1400 | 6961  | Tue | 0 (R10m 36s)                                                                               | CW | (AB-F) |
| M23 | 3-2 | 1500 | 6961  | Tue | 0 (R10m 36s)                                                                               | CW | (AB-F) |
| M23 | 3-2 | 1600 | 6961  | Tue | 0 (R10m 36s)                                                                               | CW | (AB-F) |
| M23 | 3-2 | 1700 | 6961  | Tue | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 3-2 | 1800 | 6961  | Tue | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 3-2 | 1900 | 6961  | Tue | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 3-2 | 2000 | 6961  | Tue | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 3-2 | 2100 | 6961  | Tue | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 3-2 | 2200 | 6961  | Tue | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 3-2 | 2300 | 6961  | Tue | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 4-2 | 0000 | 6961  | Wed | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 4-2 | 0100 | 6961  | Wed | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 4-2 | 0200 | 6961  | Wed | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 4-2 | 0300 | 6961  | Wed | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 4-2 | 0400 | 6961  | Wed | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 4-2 | 0500 | 6961  | Wed | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 4-2 | 0600 | 6961  | Wed | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 4-2 | 0648 | 18412 | Wed | Repeating digits 0,1,3,5 in various sequences and various speeds. Faded to nil after 1645z | CW | (AB)   |
| M23 | 4-2 | 0700 | 6961  | Wed | 0 (R10m 36s)                                                                               | CW | (AB)   |
| M23 | 4-2 | 0800 | 6961  | Wed | 0 (R10m 36s)                                                                               | CW | (AB-F) |

|     |      |      |       |     |                                                                                                                          |    |        |
|-----|------|------|-------|-----|--------------------------------------------------------------------------------------------------------------------------|----|--------|
| M23 | 4-2  | 0900 | 6961  | Wed | 0 (R10m 36s)                                                                                                             | CW | (AB-F) |
| M23 | 4-2  | 1000 | 6961  | Wed | 0 (R10m 36s)                                                                                                             | CW | (AB-F) |
| M23 | 4-2  | 1100 | 6961  | Wed | 0 (R10m 36s)                                                                                                             | CW | (AB-F) |
| M23 | 4-2  | 1200 | 6961  | Wed | 0 (R10m 36s)                                                                                                             | CW | (AB-F) |
| M23 | 4-2  | 1300 | 6961  | Wed | 0 (R10m 36s)                                                                                                             | CW | (AB-F) |
| M23 | 4-2  | 1400 | 6961  | Wed | 0 (R10m 36s)                                                                                                             | CW | (AB-F) |
| M23 | 4-2  | 1500 | 6961  | Wed | 0 (R10m 36s)                                                                                                             | CW | (AB-F) |
| M23 | 4-2  | 1600 | 6961  | Wed | 0 (R10m 36s)                                                                                                             | CW | (AB)   |
| M23 | 4-2  | 1700 | 6961  | Wed | 0 (R10m 36s)                                                                                                             | CW | (AB-F) |
| M23 | 4-2  | 1800 | 6961  | Wed | 0 (R10m 36s)                                                                                                             | CW | (AB-F) |
| M23 | 4-2  | 1900 | 6961  | Wed | 0 (R10m 36s)                                                                                                             | CW | (AB)   |
| M23 | 4-2  | 2000 | 6961  | Wed | 0 (R10m 36s)                                                                                                             | CW | (AB)   |
| M23 | 4-2  | 2100 | 6961  | Wed | 0 (R10m 36s)                                                                                                             | CW | (AB)   |
| M23 | 4-2  | 2200 | 6961  | Wed | 0 (R10m 36s)                                                                                                             | CW | (AB)   |
| M23 | 4-2  | 2300 | 6961  | Wed | 0 (R10m 36s)                                                                                                             | CW | (AB)   |
| M23 | 5-2  | 0000 | 6961  | Thu | 0 (R10m 36s)                                                                                                             | CW | (AB)   |
| M23 | 5-2  | 0100 | 6961  | Thu | 0 (R10m 36s)                                                                                                             | CW | (AB)   |
| M23 | 5-2  | 0200 | 6961  | Thu | 0 (R10m 36s)                                                                                                             | CW | (AB)   |
| M23 | 5-2  | 0300 | 6961  | Thu | 0 (R10m 36s)                                                                                                             | CW | (AB)   |
| M23 | 5-2  | 0400 | 6961  | Thu | 0 (R10m 36s)                                                                                                             | CW | (AB)   |
| M23 | 5-2  | 0500 | 6961  | Thu | 0 (R10m 36s)                                                                                                             | CW | (AB)   |
| M23 | 5-2  | 0600 | 6961  | Thu | 0 (R10m 36s)                                                                                                             | CW | (AB)   |
| M23 | 5-2  | 0648 | 18412 | Thu | Repeating digits 0,1,3,5 in various sequences and various speeds. Faded to nil after 1652z                               | CW | (AB)   |
| M23 | 5-2  | 1045 | 18412 | Thu | 5555555555 00000000 11111111 2 (repeated)                                                                                | CW | (AB)   |
| M23 | 5-2  | 2214 | 5198  | Thu | 5555555555 00000000 11111111 2 (repeated)                                                                                | CW | (AB)   |
| M23 | 6-2  | 0845 | 5198  | Fri | Non stop 5555555555 00000000 11111111 2                                                                                  | CW | (AB-F) |
| M23 | 9-2  | 1200 | 15850 | Mon | Non-stop 5555555555 00000000 11111111 2 (repeated)                                                                       | CW | (AB)   |
| M23 | 10-2 | 0658 | 15850 | Tue | Non-stop 5555555555 00000000 11111111 2 (repeated) (faded in at 0658z, faded out at 1644z)                               | CW | (AB)   |
| M23 | 12-2 | 1700 | 6198  | Thu | Non stop 5555555555 00000000 11111111 2 (repeated)                                                                       | CW | (AB)   |
| M23 | 13-2 | 0548 | 6198  | Fri | Non stop 5555555555 00000000 11111111 2 (repeated)                                                                       | CW | (AB)   |
| M23 | 15-2 | 2000 | 6198  | Sun | i.p. Non-stop 5555555555 00000000 11111111 2 (repeated)                                                                  | CW | (AB)   |
| M23 | 16-2 | 0000 | 6198  | Mon | Non-stop 5555555555 00000000 11111111 2 (repeated). Faded to nil on 16-02, 1123z)                                        | CW | (AB)   |
| M23 | 16-2 | 1533 | 6198  | Mon | Non-stop 5555555555 00000000 11111111 2 (repeated)                                                                       | CW | (AB)   |
| M23 | 17-2 | 0603 | 6198  | Tue | i.p. non-stop 5555555555 00000000 11111111 2 (repeated)                                                                  | CW | (AB)   |
| M23 | 18-2 | 0000 | 6198  | Wed | Non-stop 5555555555 00000000 11111111 2                                                                                  | CW | (AB)   |
| M23 | 18-2 | 1520 | 8030  | Wed | KM DE VM K. VM DE KM QSA 4 QRK 4 K. DE VM QSA 5 QRK 5 QRU ? K. OK OK (unreadable) PSE (unreadable) BON (rest unreadable) | CW | (AB)   |
| M23 | 19-2 | 0000 | 6198  | Thu | Non-stop 5555555555 00000000 11111111 2 (off at 0005z on 20-02)                                                          | CW | (AB)   |
| M23 | 20-2 | 0000 | 6198  | Fri | Non stop 5555555555 00000000 11111111 2 (off at 0005z)                                                                   | CW | (AB)   |



|             |      |      |       |     |                                                                                                     |            |          |
|-------------|------|------|-------|-----|-----------------------------------------------------------------------------------------------------|------------|----------|
| <b>M23</b>  | 20-2 | 0000 | 6198  | Fri | Non stop 5555555555 00000000 11111111 2 (repeated) (off at 0005z)                                   | CW         | (AB)     |
| <b>M42</b>  | 6-2  | 0919 | 18735 | Fri | Russian diplo                                                                                       | MFSK-66    | (AB)     |
| <b>M42</b>  | 12-2 | 1300 | 16156 | Thu | UAL: MFA Moscow wkg UAG: Russian embassy Havana. UAL UAL UAL followed by op-chat and a message      | FSK 75/500 | (AB)     |
| <b>M42</b>  | 12-2 | 1300 | 18726 | Thu | UAG: Russian embassy havana wkg UAL: MFA Moscow. UAG UAG UAG followed by op-chat and a message      | FSK 75/500 | (AB-BER) |
| <b>M42</b>  | 13-2 | 0837 | 10429 | Fri | Russian diplo                                                                                       | MFSK-66    | (AB)     |
| <b>M42</b>  | 13-2 | 0909 | 10431 | Fri | Russian diplo                                                                                       | MFSK-66    | (AB)     |
| <b>M42</b>  | 19-2 | 1300 | 16156 | Thu | UAL: MFA Moscow wkg UAG: Russian embassy Havana. UAL UAL UAL followed by op-chat and a message      | FSK 75/500 | (AB)     |
| <b>M42</b>  | 26-2 | 1300 | 16156 | Thu | UAL: MFA Moscow wkg UAG: Russian embassy Havana. UAL UAL UAL followed by op-chat and a message      | FSK 75/500 | (AB)     |
| <b>M42</b>  | 26-2 | 1300 | 18726 | Thu | UAG: Russian embassy Havana wkg UAL: MFA Moscow. UAG UAG UAG followed by opchat and a message       | FSK 75/500 | (AB)     |
| <b>M42</b>  | 27-2 | 0919 | 10431 | Fri | Russian diplo                                                                                       | MFSK-66    | (AB)     |
| <b>M42</b>  | 27-2 | 0920 | 9357  | Fri | Russian diplo                                                                                       | MFSK-66    | (AB)     |
| <b>M42b</b> | 3-2  | 0851 | 17475 | Tue | Russian Gov PtP station RTK2 121742 working remote station RGY2 380741 on 11470 kHz                 | FSK 50/500 | (AB)     |
| <b>M42b</b> | 18-2 | 0922 | 16128 | Wed | VTHZLQPKFUJ ROBZLQPKFUJ RTYPJCKZCS GMOU-<br>OOOOOOOOOOOOOOOOOOOOOOOOOOOO (repeated)                 | FSK 50/500 | (AB)     |
| <b>M42b</b> | 18-2 | 1125 | 13448 | Wed | VTHZLQPKFUJ ROBZLQPKFUJ RTYPJCKZCS GMOU-<br>OOOOOOOOOOOOOOOOOOOOOOOOOOOO (repeated)                 | FSK 50/500 | (AB)     |
| <b>M89</b>  | 1-2  | 1234 | 4522  | Sun | V TG1Y (x3) DE X9FW (x2)                                                                            | CW         | (JPL)    |
| <b>M89</b>  | 1-2  | 1238 | 4329  | Sun | i.p.                                                                                                | CW         | (JPL)    |
| <b>M89</b>  | 1-2  | 1253 | 4508  | Sun | i.p. GC6U DE XYG2)                                                                                  | CW         | (JPL)    |
| <b>M89</b>  | 1-2  | 1320 | 4860  | Sun | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                                 | CW         | (JPL)    |
| <b>M89</b>  | 1-2  | 1320 | 6840  | Sun | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                                 | CW         | (JPL)    |
| <b>M89</b>  | 1-2  | 1708 | 4478  | Sun | i.p. HW SVC 437/XX56/8512/57/56/25/X352A/COMM/8546 AR NIL SK NIL SK                                 | CW         | (JPL)    |
| <b>M89</b>  | 2-2  | 1219 | 4392  | Mon | i.p.                                                                                                | CW         | (JPL)    |
| <b>M89</b>  | 2-2  | 1220 | 4860  | Mon | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                                 | CW         | (JPL)    |
| <b>M89</b>  | 2-2  | 1220 | 6840  | Mon | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                                 | CW         | (JPL)    |
| <b>M89</b>  | 2-2  | 1221 | 4485  | Mon | i.p.                                                                                                | CW         | (JPL)    |
| <b>M89</b>  | 2-2  | 1222 | 4508  | Mon | DE XYG2 (x2)                                                                                        | CW         | (JPL)    |
| <b>M89</b>  | 2-2  | 1232 | 4545  | Mon | R8TH i.p. NR 5001/EX 0500 RMKS CQ = 9MKU/ZSCH AR                                                    | CW         | (JPL)    |
| <b>M89</b>  | 2-2  | 1240 | 5248  | Mon | i.p.                                                                                                | CW         | (JPL)    |
| <b>M89</b>  | 2-2  | 1248 | 5665  | Mon | i.p. NR 050 CK 77 85 0202 2050 RMKS 3089 TO 4553 = NR 040 CK 89 10 0202 2058<br>RMKS 3173 TO 3189 = | CW         | (JPL)    |
| <b>M89</b>  | 2-2  | 1254 | 4477  | Mon | i.p.                                                                                                | CW         | (JPL)    |
| <b>M89</b>  | 2-2  | 1256 | 4928  | Mon | i.p.                                                                                                | CW         | (JPL)    |
| <b>M89</b>  | 3-2  | 1707 | 4522  | Tue | V TG1Y (x3) DE X9FW (x2)                                                                            | CW         | (JPL)    |
| <b>M89</b>  | 3-2  | 1709 | 4508  | Tue | GC6U (x3) DE XYG2 x2)                                                                               | CW         | (JPL)    |
| <b>M89</b>  | 3-2  | 1720 | 4860  | Tue | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                                 | CW         | (JPL)    |

|     |     |      |      |     |                                                          |    |       |
|-----|-----|------|------|-----|----------------------------------------------------------|----|-------|
| M89 | 3-2 | 1720 | 6840 | Tue | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                      | CW | (JPL) |
| M89 | 4-2 | 1041 | 4522 | Wed | V TG1Y (x3) DE X9FW (x2)                                 | CW | (JPL) |
| M89 | 4-2 | 1043 | 7716 | Wed | GC6U (x3) DE XYG2 (x2)                                   | CW | (JPL) |
| M89 | 4-2 | 1048 | 7940 | Wed | i.p.                                                     | CW | (JPL) |
| M89 | 4-2 | 1052 | 8166 | Wed | i.p.                                                     | CW | (JPL) |
| M89 | 4-2 | 1110 | 8888 | Wed | i.p. NR 002 CK 59 71 0204 1830 RMKS 1488 TO 1429 K       | CW | (JPL) |
| M89 | 4-2 | 1122 | 6666 | Wed | i.p.                                                     | CW | (JPL) |
| M89 | 4-2 | 1126 | 5798 | Wed | i.p.                                                     | CW | (JPL) |
| M89 | 4-2 | 1128 | 5555 | Wed | i.p. DE 6OQI NR 125 CK 41 23 0204 1830 =                 | CW | (JPL) |
| M89 | 4-2 | 1720 | 4860 | Wed | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                      | CW | (JPL) |
| M89 | 4-2 | 1720 | 6840 | Wed | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                      | CW | (JPL) |
| M89 | 4-2 | 1734 | 4216 | Wed | i.p. DE 448U                                             | CW | (JPL) |
| M89 | 4-2 | 1801 | 3363 | Wed | i.p. NR 034 CK 89 55 0105 0204 RMKS 4736 TO 4193         | CW | (JPL) |
| M89 | 5-2 | 1708 | 4522 | Thu | V TG1Y (x3) DE X9FW (x2)                                 | CW | (JPL) |
| M89 | 5-2 | 1715 | 4061 | Thu | i.p. NR .... CK 91 93 0206 0205 RMKS 6301 TO 6111 =      | CW | (JPL) |
| M89 | 6-2 | 1720 | 4860 | Fri | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                      | CW | (JPL) |
| M89 | 6-2 | 1720 | 6840 | Fri | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                      | CW | (JPL) |
| M89 | 6-2 | 1725 | 4522 | Fri | V TG1Y (x3) DE X9FW (x2)                                 | CW | (JPL) |
| M89 | 6-2 | 1728 | 4508 | Fri | V GC6U (x3) DE XYG2 (x2)                                 | CW | (JPL) |
| M89 | 8-2 | 1915 | 3950 | Sun | VVV BZS (x3) DE OMB (x2) (R5) (new sked and calls)       | CW | (JPL) |
| M89 | 8-2 | 1929 | 4522 | Sun | V TG1Y (x3) DE X9FW (x2)                                 | CW | (JPL) |
| M89 | 8-2 | 1932 | 4508 | Sun | V GC6U (x3) DE XYG2 (x2)                                 | CW | (JPL) |
| M89 | 8-2 | 2028 | 3950 | Sun | VVV BZS (x3) DE OMB (x2) (R2)                            | CW | (JPL) |
| M89 | 8-2 | 2045 | 4860 | Sun | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                      | CW | (JPL) |
| M89 | 8-2 | 2045 | 6840 | Sun | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                      | CW | (JPL) |
| M89 | 9-2 | 1040 | 4522 | Mon | V TG1Y (x3) DE X9FW (x2)                                 | CW | (JPL) |
| M89 | 9-2 | 1042 | 3978 | Mon | DE 9CPA i.p.                                             | CW | (JPL) |
| M89 | 9-2 | 1051 | 6515 | Mon | 9CPA i.p. F NR 0007/EX 1855 RMKS CQ = EW/XO AR           | CW | (JPL) |
| M89 | 9-2 | 1054 | 6708 | Mon | 5NY6 i.p.                                                | CW | (JPL) |
| M89 | 9-2 | 1130 | 4720 | Mon | VVV WNF (x3) DE FXM (x2) (R5) QSA ? K                    | CW | (JPL) |
| M89 | 9-2 | 1130 | 5150 | Mon | VVV WNF (x3) DE FXM (x2) (R5) QSA ? K                    | CW | (JPL) |
| M89 | 9-2 | 1200 | 4416 | Mon | V GC6U (x3) DE XYG2 (x2) (Frequency change from 4508kHz) | CW | (JPL) |
| M89 | 9-2 | 1211 | 4141 | Mon | i.p.                                                     | CW | (JPL) |
| M89 | 9-2 | 1222 | 3231 | Mon | i.p.                                                     | CW | (JPL) |
| M89 | 9-2 | 1223 | 4478 | Mon | i.p.                                                     | CW | (JPL) |
| M89 | 9-2 | 1231 | 4457 | Mon | i.p.                                                     | CW | (JPL) |
| M89 | 9-2 | 1239 | 8039 | Mon | i.p.                                                     | CW | (JPL) |
| M89 | 9-2 | 1239 | 8039 | Mon | i.p. NR 5655 CK 51 27 0209 1030 RMKS 6652 TO 6650 =      | CW | (JPL) |
| M89 | 9-2 | 1242 | 8733 | Mon | WF4T DE ED3G                                             | CW | (JPL) |
| M89 | 9-2 | 1252 | 4123 | Mon | i.p. F NR 8003/EX 2036 RMKS CQ = XYJ2/PH3J AR            | CW | (JPL) |
| M89 | 9-2 | 1254 | 3978 | Mon | i.p.                                                     | CW | (JPL) |
| M89 | 9-2 | 1256 | 3615 | Mon | i.p.                                                     | CW | (JPL) |

|     |      |      |       |     |                                                      |    |       |
|-----|------|------|-------|-----|------------------------------------------------------|----|-------|
| M89 | 9-2  | 1301 | 4359  | Mon | i.p. NR 0038 CK 121 68 0209 1855 RMKS 9444 TO 9125 = | CW | (JPL) |
| M89 | 9-2  | 1610 | 3615  | Mon | i.p. NR 5633 CK 51 90 02-10 0000 RMKS 9347 TO 2085 = | CW | (JPL) |
| M89 | 9-2  | 1616 | 4669  | Mon | i.p.                                                 | CW | (JPL) |
| M89 | 10-2 | 1120 | 4860  | Tue | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                  | CW | (JPL) |
| M89 | 10-2 | 1120 | 6840  | Tue | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                  | CW | (JPL) |
| M89 | 10-2 | 1153 | 3611  | Tue | V TG1Y (x3) DE X9FW (x2)                             | CW | (JPL) |
| M89 | 10-2 | 1153 | 5419  | Tue | V TG1Y (x3) DE X9FW (x2)                             | CW | (JPL) |
| M89 | 10-2 | 1156 | 7716  | Tue | V GC6U (x3) DE XYG2 (x2)                             | CW | (JPL) |
| M89 | 11-2 | 1915 | 4508  | Wed | V GC6U (x3) DE XYG2 (x2)                             | CW | (JPL) |
| M89 | 11-2 | 1917 | 4522  | Wed | V TG1Y (x3) DE X9FW (x2)                             | CW | (JPL) |
| M89 | 11-2 | 1920 | 4860  | Wed | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                  | CW | (JPL) |
| M89 | 11-2 | 1920 | 6840  | Wed | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                  | CW | (JPL) |
| M89 | 12-2 | 1207 | 4522  | Thu | V TG1Y (x3) DE X9FW (x2)                             | CW | (JPL) |
| M89 | 12-2 | 1210 | 7716  | Thu | V GC6U (x3) DE XYG2 (x2)                             | CW | (JPL) |
| M89 | 12-2 | 1212 | 4000  | Thu | i.p.                                                 | CW | (JPL) |
| M89 | 12-2 | 1216 | 4132  | Thu | i.p.                                                 | CW | (JPL) |
| M89 | 12-2 | 1217 | 4144  | Thu | i.p.                                                 | CW | (JPL) |
| M89 | 12-2 | 1220 | 4860  | Thu | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                  | CW | (JPL) |
| M89 | 12-2 | 1227 | 4811  | Thu | i.p.                                                 | CW | (JPL) |
| M89 | 12-2 | 1257 | 3599  | Thu | i.p. NR 3004 CK 71 55 02012 0830 RMKS 7291 TO 7298 = | CW | (JPL) |
| M89 | 16-2 | 1243 | 4333  | Mon | i.p.                                                 | CW | (JPL) |
| M89 | 16-2 | 1253 | 4508  | Mon | V GC6U (x3) DE XYG2 (x2)                             | CW | (JPL) |
| M89 | 16-2 | 1255 | 4522  | Mon | V TG1Y (x3) DE X9FW (x2)                             | CW | (JPL) |
| M89 | 16-2 | 1320 | 4860  | Mon | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                  | CW | (JPL) |
| M89 | 16-2 | 1320 | 6840  | Mon | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                  | CW | (JPL) |
| M89 | 17-2 | 1217 | 4508  | Tue | V GC6U (x3) DE XYG2 (x2)                             | CW | (JPL) |
| M89 | 17-2 | 1219 | 4522  | Tue | V TG1Y (x3) DE X9FW (x2)                             | CW | (JPL) |
| M89 | 17-2 | 1220 | 4860  | Tue | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                  | CW | (JPL) |
| M89 | 17-2 | 1220 | 6840  | Tue | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                  | CW | (JPL) |
| M89 | 17-2 | 1713 | 4482  | Tue | i.p.                                                 | CW | (JPL) |
| M89 | 17-2 | 1720 | 4860  | Tue | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                  | CW | (JPL) |
| M89 | 17-2 | 1720 | 6840  | Tue | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                  | CW | (JPL) |
| M89 | 17-2 | 1730 | 5672  | Tue | Y3JI DE N6WX                                         | CW | (JPL) |
| M89 | 17-2 | 1806 | 3894  | Tue | i.p.                                                 | CW | (JPL) |
| M89 | 19-2 | 0258 | 12760 | Thu | i.p.                                                 | CW | (JPL) |
| M89 | 19-2 | 0318 | 13448 | Thu | i.p.                                                 | CW | (JPL) |
| M89 | 19-2 | 0325 | 13362 | Thu | V TG1Y (x3) DE X9FW (x2)                             | CW | (JPL) |
| M89 | 19-2 | 1118 | 7716  | Thu | V GC6U (x3) DE XYG2 (x2)                             | CW | (JPL) |
| M89 | 19-2 | 1130 | 4720  | Thu | VVV WNF (x3) DE FXM (x2) (R5) QSA ? K                | CW | (JPL) |
| M89 | 19-2 | 1130 | 5150  | Thu | VVV WNF (x3) DE FXM (x2) (R5) QSA ? K                | CW | (JPL) |
| M89 | 19-2 | 1214 | 6476  | Thu | i.p.                                                 | CW | (JPL) |
| M89 | 19-2 | 1220 | 4569  | Thu | i.p.                                                 | CW | (JPL) |

|     |      |      |        |     |                                                                  |    |       |
|-----|------|------|--------|-----|------------------------------------------------------------------|----|-------|
| M89 | 19-2 | 1224 | 4329   | Thu | i.p.                                                             | CW | (JPL) |
| M89 | 19-2 | 1226 | 4263   | Thu | i.p.                                                             | CW | (JPL) |
| M89 | 19-2 | 1459 | 4522   | Thu | V TG1Y (x3) DE X9FW (x2)                                         | CW | (JPL) |
| M89 | 19-2 | 1505 | 4478   | Thu | i.p. SVC 438/XZ50/8458/50/72/25/X450C/COMM/8545 AR NIL SK NIL SK | CW | (JPL) |
| M89 | 19-2 | 1507 | 4666.7 | Thu | i.p. NR 3917 CK 50 52 0219 2200 RMKS 3325 TO 5566 =              | CW | (JPL) |
| M89 | 19-2 | 2020 | 4860   | Thu | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                              | CW | (JPL) |
| M89 | 19-2 | 2020 | 6840   | Thu | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                              | CW | (JPL) |
| M89 | 19-2 | 2027 | 4508   | Thu | V GC6U (x3) DE XYG2 (x2)                                         | CW | (JPL) |
| M89 | 23-2 | 1206 | 4508   | Mon | V GC6U (x3) DE XYG2 (x2)                                         | CW | (JPL) |
| M89 | 23-2 | 1208 | 4522   | Mon | V TG1Y (x3) DE X9FW (x2)                                         | CW | (JPL) |
| M89 | 23-2 | 1219 | 4329   | Mon | i.p. DE ED3G                                                     | CW | (JPL) |
| M89 | 23-2 | 1220 | 4860   | Mon | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                              | CW | (JPL) |
| M89 | 23-2 | 1220 | 6840   | Mon | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                              | CW | (JPL) |
| M89 | 23-2 | 1229 | 6385   | Mon | i.p. NR 8033/CCK CK 99 45 0223 2020 RMKS 9563 TO 9503 =          | CW | (JPL) |
| M89 | 23-2 | 1241 | 6323   | Mon | i.p. RMKS .... TO 5410                                           | CW | (JPL) |
| M89 | 23-2 | 1253 | 4809   | Mon | i.p.                                                             | CW | (JPL) |
| M89 | 27-2 | 1218 | 3611   | Fri | V TG1Y (x3) DE X9FW (x2)                                         | CW | (JPL) |
| M89 | 27-2 | 1218 | 4522   | Fri | V TG1Y (x3) DE X9FW (x2)                                         | CW | (JPL) |
| M89 | 27-2 | 1220 | 4860   | Fri | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                              | CW | (JPL) |
| M89 | 27-2 | 1220 | 6840   | Fri | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                              | CW | (JPL) |
| M89 | 27-2 | 1238 | 6988   | Fri | i.p.                                                             | CW | (JPL) |
| M89 | 27-2 | 1652 | 4508   | Fri | V GC6U (x3) DE XYG2 (x2)                                         | CW | (JPL) |
| M89 | 27-2 | 1835 | 4860   | Fri | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                              | CW | (JPL) |
| M89 | 27-2 | 1835 | 6840   | Fri | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                              | CW | (JPL) |
| M95 | 1-2  | 1228 | 3903   | Sun | V WCJJ (x3) DE HBDD (x2)                                         | CW | (JPL) |
| M95 | 1-2  | 1228 | 6886   | Sun | V WCJJ (x3) DE HBDD (x2)                                         | CW | (JPL) |
| M95 | 2-2  | 1150 | 4542   | Mon | BNGC DE XS30 //6876 kHz                                          | CW | (JPL) |
| M95 | 2-2  | 1150 | 6876   | Mon | BNGC DE XS30 //4542 kHz                                          | CW | (JPL) |
| M95 | 2-2  | 1227 | 11475  | Mon | V WCJJ (x3) DE HBDD (x2)                                         | CW | (JPL) |
| M95 | 2-2  | 1228 | 6557   | Mon | V WCJJ (x3) DE HBDD (x2)                                         | CW | (JPL) |
| M95 | 3-2  | 1726 | 3903   | Tue | V WCJJ (x3) DE HBDD (x2)                                         | CW | (JPL) |
| M95 | 3-2  | 1726 | 6886   | Tue | V WCJJ (x3) DE HBDD (x2)                                         | CW | (JPL) |
| M95 | 4-2  | 1103 | 6557   | Wed | V WCJJ (x3) DE HBDD (x2)                                         | CW | (JPL) |
| M95 | 4-2  | 1103 | 11475  | Wed | V WCJJ (x3) DE HBDD (x2)                                         | CW | (JPL) |
| M95 | 4-2  | 1142 | 4542   | Wed | NR 0125 CK 343 35 0204 1527 = //6876 kHz                         | CW | (JPL) |
| M95 | 4-2  | 1142 | 6876   | Wed | NR 0125 CK 343 35 0204 1527 = //4542 kHz                         | CW | (JPL) |
| M95 | 4-2  | 1154 | 4152   | Wed | NR 90 CK 63 35 0204 1435 = //6352 kHz                            | CW | (JPL) |
| M95 | 4-2  | 1154 | 6352   | Wed | NR 90 CK 63 35 0204 1435 = //4152 kHz                            | CW | (JPL) |
| M95 | 5-2  | 1710 | 3903   | Thu | V WCJJ (x3) DE HBDD (x2)                                         | CW | (JPL) |
| M95 | 5-2  | 1710 | 6886   | Thu | V WCJJ (x3) DE HBDD (x2)                                         | CW | (JPL) |
| M95 | 6-2  | 1726 | 3903   | Fri | V WCJJ (x3) DE HBDD (x2)                                         | CW | (JPL) |
| M95 | 6-2  | 1726 | 6886   | Fri | V WCJJ (x3) DE HBDD (x2)                                         | CW | (JPL) |

|     |      |      |       |     |                                                                                 |    |       |
|-----|------|------|-------|-----|---------------------------------------------------------------------------------|----|-------|
| M95 | 8-2  | 1933 | 3903  | Sun | V WCJJ (x3) DE HBDD (x2)                                                        | CW | (JPL) |
| M95 | 8-2  | 1933 | 6886  | Sun | V WCJJ (x3) DE HBDD (x2)                                                        | CW | (JPL) |
| M95 | 8-2  | 2002 | 3978  | Sun | i.p.                                                                            | CW | (JPL) |
| M95 | 9-2  | 1035 | 6557  | Mon | V WCJJ (x3) DE HBDD (x2)                                                        | CW | (JPL) |
| M95 | 9-2  | 1035 | 11475 | Mon | V WCJJ (x3) DE HBDD (x2) Chirpy sound.                                          | CW | (JPL) |
| M95 | 9-2  | 1145 | 4542  | Mon | BNGC DE XS30 NR 0145 CK 032 35 0209 1702 = //6876 kHz                           | CW | (JPL) |
| M95 | 9-2  | 1145 | 6876  | Mon | BNGC DE XS30 NR 0145 CK 032 35 0209 1702 = //4542 kHz                           | CW | (JPL) |
| M95 | 9-2  | 1151 | 6352  | Mon | NR 080 CK 56 35 0209 1507 = NR 18 CK 183 35 0209 1530 = //9042 kHz              | CW | (JPL) |
| M95 | 9-2  | 1151 | 9042  | Mon | NR 080 CK 56 35 0209 1507 = NR 18 CK 183 35 0209 1530 = //6352 kHz              | CW | (JPL) |
| M95 | 10-2 | 1151 | 6557  | Tue | V WCJJ (x3) DE HBDD (x2)                                                        | CW | (JPL) |
| M95 | 10-2 | 1151 | 11475 | Tue | V WCJJ (x3) DE HBDD (x2) Chirpy sound.                                          | CW | (JPL) |
| M95 | 11-2 | 1928 | 6886  | Wed | V WCJJ (x3) DE HBDD (x2)                                                        | CW | (JPL) |
| M95 | 12-2 | 1153 | 4542  | Thu | BNGC DE XS30 //6876 kHz                                                         | CW | (JPL) |
| M95 | 12-2 | 1153 | 6876  | Thu | BNGC DE XS30 //4542 kHz                                                         | CW | (JPL) |
| M95 | 12-2 | 1156 | 6352  | Thu | i.p. //9042 kHz                                                                 | CW | (JPL) |
| M95 | 12-2 | 1156 | 9042  | Thu | i.p. //6352 kHz                                                                 | CW | (JPL) |
| M95 | 12-2 | 1205 | 6886  | Thu | V WCJJ (x3) DE HBDD (x2)                                                        | CW | (JPL) |
| M95 | 12-2 | 1228 | 6886  | Thu | V WCJJ (x3) DE HBDD (x2)                                                        | CW | (JPL) |
| M95 | 16-2 | 1555 | 3903  | Mon | V WCJJ (x3) DE HBDD (x2)                                                        | CW | (JPL) |
| M95 | 17-2 | 1135 | 4542  | Tue | BNGC DE XS30 NR 0168 CK 578 35 0218 1552 = //6876 kHz                           | CW | (JPL) |
| M95 | 17-2 | 1135 | 6876  | Tue | BNGC DE XS30 NR 0168 CK 578 35 0218 1552 = //4542 kHz                           | CW | (JPL) |
| M95 | 17-2 | 1144 | 4542  | Tue | BNGC DE XS30 NR 0175 CK 454 35 0219 1523 = //6876 kHz                           | CW | (JPL) |
| M95 | 17-2 | 1144 | 6876  | Tue | BNGC DE XS30 NR 0175 CK 454 35 0219 1523 = //4542 kHz                           | CW | (JPL) |
| M95 | 17-2 | 1151 | 4156  | Tue | NR 0967 CK 48 35 0218 1502 = NR 34 CK 165 35 0217 1523 = //6352, 9042 kHz       | CW | (JPL) |
| M95 | 17-2 | 1151 | 6352  | Tue | NR 0967 CK 48 35 0218 1502 = NR 34 CK 165 35 0217 1523 = //4156, 9042 kHz       | CW | (JPL) |
| M95 | 17-2 | 1151 | 9042  | Tue | NR 0967 CK 48 35 0218 1502 = NR 34 CK 165 35 0217 1523 = //4156, 6352 kHz       | CW | (JPL) |
| M95 | 17-2 | 1718 | 5163  | Tue | i.p. NR 084/CCK CK 81 82 0218 0100 RKMS 1452 TO 1210 TO 1233 TO A202 =          | CW | (JPL) |
| M95 | 17-2 | 1750 | 4123  | Tue | i.p. NR 084/CCK CK 81 32 0218 0100 RMKS 9413 TO 9398 TO 9366 TO U383 =          | CW | (JPL) |
| M95 | 19-2 | 1114 | 6557  | Thu | V WCJJ (x3) DE HBDD (x2)                                                        | CW | (JPL) |
| M95 | 19-2 | 1149 | 4156  | Thu | NR 001 CK 15 35 0219 1435 = NR 38 CK 154 35 0219 1527 = // 4156, 6352, 9042 kHz | CW | (JPL) |
| M95 | 19-2 | 1149 | 6352  | Thu | NR 001 CK 15 35 0219 1435 = NR 38 CK 154 35 0219 1527 = // 4156, 6352, 9042 kHz | CW | (JPL) |
| M95 | 19-2 | 1149 | 9042  | Thu | NR 001 CK 15 35 0219 1435 = NR 38 CK 154 35 0219 1527 = // 4156, 6352, 9042 kHz | CW | (JPL) |
| M95 | 19-2 | 1457 | 3903  | Thu | V WCJJ (x3) DE HBDD (x2)                                                        | CW | (JPL) |
| M95 | 23-2 | 1143 | 4542  | Mon | BNGC DE XS30 //6876 kHz                                                         | CW | (JPL) |
| M95 | 23-2 | 1143 | 6876  | Mon | BNGC DE XS30 //4542 kHz                                                         | CW | (JPL) |
| M95 | 23-2 | 1148 | 4156  | Mon | NR 009 CK 33 35 0223 1505 = NR 46 CK 157 35 0123 1513 = //4156, 6352, 9042 kHz  | CW | (JPL) |
| M95 | 23-2 | 1148 | 6352  | Mon | NR 009 CK 33 35 0223 1505 = NR 46 CK 157 35 0123 1513 = //4156, 6352, 9042 kHz  | CW | (JPL) |
| M95 | 23-2 | 1148 | 9042  | Mon | NR 009 CK 33 35 0223 1505 = NR 46 CK 157 35 0123 1513 = //4156, 6352, 9042 kHz  | CW | (JPL) |
| M95 | 23-2 | 1150 | 4156  | Mon | NR 54 CK 139 35 0227 1505 = NR 035 CK 26 35 0227 1613 = //4156, 6352, 9042 kHz  | CW | (JPL) |
| M95 | 23-2 | 1150 | 6352  | Mon | NR 54 CK 139 35 0227 1505 = NR 035 CK 26 35 0227 1613 = //4156, 6352, 9042 kHz  | CW | (JPL) |
| M95 | 23-2 | 1150 | 9042  | Mon | NR 54 CK 139 35 0227 1505 = NR 035 CK 26 35 0227 1613 = //4156, 6352, 9042 kHz  | CW | (JPL) |
| M95 | 27-2 | 1234 | 6557  | Fri | V WCJJ (x3) DE HBDD (x2) RI                                                     | CW | (JPL) |

|            |      |      |       |     |                                        |     |       |
|------------|------|------|-------|-----|----------------------------------------|-----|-------|
| <b>M95</b> | 27-2 | 1234 | 11475 | Fri | V WCJJ (x3) DE HBDD (x2) Chirpy sound. | CW  | (JPL) |
| <b>M95</b> | 27-2 | 1650 | 3903  | Fri | V WCJJ (x3) DE HBDD (x2)               | CW  | (JPL) |
| <b>M95</b> | 27-2 | 1650 | 6886  | Fri | V WCJJ (x3) DE HBDD (x2) Chirpy sound. | CW  | (JPL) |
| <b>M95</b> | 27-2 | 1812 | 5544  | Fri | V WCJJ (x3) DE HBDD (x2)               | CW  | (JPL) |
| <b>P03</b> | 1-2  | 0530 | 4298  | Sun | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 1-2  | 0535 | 4298  | Sun | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 1-2  | 1020 | 5176  | Sun | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 1-2  | 1025 | 5176  | Sun | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 1-2  | 1100 | 6433  | Sun | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 1-2  | 1105 | 6433  | Sun | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 1-2  | 1220 | 23060 | Sun | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 1-2  | 1225 | 23060 | Sun | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 1-2  | 1245 | 4840  | Sun | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 1-2  | 1250 | 4840  | Sun | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 1-2  | 1515 | 16335 | Sun | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 1-2  | 1520 | 16335 | Sun | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 1-2  | 1725 | 11104 | Sun | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 1-2  | 1730 | 11104 | Sun | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 1-2  | 1950 | 6906  | Sun | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 1-2  | 1955 | 6906  | Sun | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 2-2  | 1220 | 23060 | Mon | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 2-2  | 1225 | 23060 | Mon | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 3-2  | 0430 | 6252  | Tue | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 3-2  | 0435 | 6252  | Tue | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 3-2  | 1500 | 10125 | Tue | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 3-2  | 1505 | 10125 | Tue | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 4-2  | 1310 | 9130  | Wed | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 4-2  | 1315 | 9130  | Wed | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 6-2  | 0530 | 4298  | Fri | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 6-2  | 0535 | 4298  | Fri | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 6-2  | 1100 | 6433  | Fri | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 6-2  | 1105 | 6433  | Fri | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 6-2  | 1500 | 10125 | Fri | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 6-2  | 1505 | 10125 | Fri | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 6-2  | 1515 | 16335 | Fri | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 6-2  | 1520 | 16335 | Fri | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 7-2  | 1020 | 5176  | Sat | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 7-2  | 1025 | 5176  | Sat | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 7-2  | 1245 | 4840  | Sat | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 7-2  | 1250 | 4840  | Sat | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 7-2  | 1310 | 9130  | Sat | Polish intel.                          | PSK | (AB)  |
| <b>P03</b> | 7-2  | 1315 | 9130  | Sat | Polish intel.                          | PSK | (AB)  |



|     |      |      |       |     |               |     |      |
|-----|------|------|-------|-----|---------------|-----|------|
| P03 | 8-2  | 0530 | 4298  | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-2  | 0535 | 4298  | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-2  | 1020 | 5176  | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-2  | 1025 | 5176  | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-2  | 1100 | 6433  | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-2  | 1105 | 6433  | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-2  | 1220 | 23060 | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-2  | 1225 | 23060 | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-2  | 1245 | 4840  | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-2  | 1250 | 4840  | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-2  | 1515 | 16335 | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-2  | 1520 | 16335 | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-2  | 1725 | 11104 | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-2  | 1730 | 11104 | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-2  | 1950 | 6906  | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-2  | 1955 | 6906  | Sun | Polish intel. | PSK | (AB) |
| P03 | 9-2  | 1220 | 23060 | Mon | Polish intel. | PSK | (AB) |
| P03 | 9-2  | 1225 | 23060 | Mon | Polish intel. | PSK | (AB) |
| P03 | 10-2 | 0430 | 6252  | Tue | Polish intel. | PSK | (AB) |
| P03 | 10-2 | 0435 | 6252  | Tue | Polish intel. | PSK | (AB) |
| P03 | 10-2 | 1500 | 10125 | Tue | Polish intel. | PSK | (AB) |
| P03 | 10-2 | 1505 | 10125 | Tue | Polish intel. | PSK | (AB) |
| P03 | 10-2 | 1725 | 11104 | Tue | Polish intel. | PSK | (AB) |
| P03 | 10-2 | 1730 | 11104 | Tue | Polish intel. | PSK | (AB) |
| P03 | 11-2 | 1310 | 9130  | Wed | Polish intel. | PSK | (AB) |
| P03 | 11-2 | 1315 | 9130  | Wed | Polish intel. | PSK | (AB) |
| P03 | 12-2 | 0430 | 6252  | Thu | Polish intel. | PSK | (AB) |
| P03 | 12-2 | 0435 | 6252  | Thu | Polish intel. | PSK | (AB) |
| P03 | 13-2 | 0530 | 4298  | Fri | Polish intel. | PSK | (AB) |
| P03 | 13-2 | 0535 | 4298  | Fri | Polish intel. | PSK | (AB) |
| P03 | 13-2 | 1100 | 6433  | Fri | Polish intel. | PSK | (AB) |
| P03 | 13-2 | 1105 | 6433  | Fri | Polish intel. | PSK | (AB) |
| P03 | 13-2 | 1500 | 10125 | Fri | Polish intel. | PSK | (AB) |
| P03 | 13-2 | 1505 | 10125 | Fri | Polish intel. | PSK | (AB) |
| P03 | 13-2 | 1515 | 16335 | Fri | Polish intel. | PSK | (AB) |
| P03 | 13-2 | 1520 | 16335 | Fri | Polish intel. | PSK | (AB) |
| P03 | 14-2 | 1020 | 5176  | Sat | Polish intel. | PSK | (AB) |
| P03 | 14-2 | 1025 | 5176  | Sat | Polish intel. | PSK | (AB) |
| P03 | 14-2 | 1245 | 4840  | Sat | Polish intel. | PSK | (AB) |
| P03 | 14-2 | 1250 | 4840  | Sat | Polish intel. | PSK | (AB) |
| P03 | 14-2 | 1310 | 9130  | Sat | Polish intel. | PSK | (AB) |
| P03 | 14-2 | 1315 | 9130  | Sat | Polish intel. | PSK | (AB) |

|     |      |      |       |     |               |     |      |
|-----|------|------|-------|-----|---------------|-----|------|
| P03 | 15-2 | 0530 | 4298  | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-2 | 0535 | 4298  | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-2 | 1020 | 5176  | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-2 | 1025 | 5176  | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-2 | 1100 | 6433  | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-2 | 1105 | 6433  | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-2 | 1220 | 23060 | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-2 | 1225 | 23060 | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-2 | 1245 | 4840  | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-2 | 1250 | 4840  | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-2 | 1515 | 16335 | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-2 | 1520 | 16335 | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-2 | 1725 | 11104 | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-2 | 1730 | 11104 | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-2 | 1950 | 6906  | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-2 | 1955 | 6906  | Sun | Polish intel. | PSK | (AB) |
| P03 | 16-2 | 1220 | 23060 | Mon | Polish intel. | PSK | (AB) |
| P03 | 16-2 | 1225 | 23060 | Mon | Polish intel. | PSK | (AB) |
| P03 | 17-2 | 0430 | 6252  | Tue | Polish intel. | PSK | (AB) |
| P03 | 17-2 | 0435 | 6252  | Tue | Polish intel. | PSK | (AB) |
| P03 | 17-2 | 1500 | 10125 | Tue | Polish intel. | PSK | (AB) |
| P03 | 17-2 | 1505 | 10125 | Tue | Polish intel. | PSK | (AB) |
| P03 | 17-2 | 1725 | 11104 | Tue | Polish intel. | PSK | (AB) |
| P03 | 17-2 | 1730 | 11104 | Tue | Polish intel. | PSK | (AB) |
| P03 | 18-2 | 1310 | 9130  | Wed | Polish intel. | PSK | (AB) |
| P03 | 18-2 | 1315 | 9130  | Wed | Polish intel. | PSK | (AB) |
| P03 | 19-2 | 0430 | 6252  | Thu | Polish intel. | PSK | (AB) |
| P03 | 19-2 | 0435 | 6252  | Thu | Polish intel. | PSK | (AB) |
| P03 | 19-2 | 1950 | 6906  | Thu | Polish intel. | PSK | (AB) |
| P03 | 19-2 | 1955 | 6906  | Thu | Polish intel. | PSK | (AB) |
| P03 | 20-2 | 0530 | 4298  | Fri | Polish intel. | PSK | (AB) |
| P03 | 20-2 | 0535 | 4298  | Fri | Polish intel. | PSK | (AB) |
| P03 | 20-2 | 1100 | 6433  | Fri | Polish intel. | PSK | (AB) |
| P03 | 20-2 | 1105 | 6433  | Fri | Polish intel. | PSK | (AB) |
| P03 | 20-2 | 1500 | 10125 | Fri | Polish intel. | PSK | (AB) |
| P03 | 20-2 | 1505 | 10125 | Fri | Polish intel. | PSK | (AB) |
| P03 | 20-2 | 1515 | 16335 | Fri | Polish intel. | PSK | (AB) |
| P03 | 20-2 | 1520 | 16335 | Fri | Polish intel. | PSK | (AB) |
| P03 | 21-2 | 1020 | 5176  | Sat | Polish intel. | PSK | (AB) |
| P03 | 21-2 | 1025 | 5176  | Sat | Polish intel. | PSK | (AB) |
| P03 | 21-2 | 1245 | 4840  | Sat | Polish intel. | PSK | (AB) |
| P03 | 21-2 | 1250 | 4840  | Sat | Polish intel. | PSK | (AB) |



|     |      |      |       |     |               |     |      |
|-----|------|------|-------|-----|---------------|-----|------|
| P03 | 21-2 | 1310 | 9130  | Sat | Polish intel. | PSK | (AB) |
| P03 | 21-2 | 1310 | 9130  | Sat | Polish intel. | PSK | (AB) |
| P03 | 21-2 | 1315 | 9130  | Sat | Polish intel. | PSK | (AB) |
| P03 | 21-2 | 1315 | 9130  | Sat | Polish intel. | PSK | (AB) |
| P03 | 22-2 | 0530 | 4298  | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-2 | 0535 | 4298  | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-2 | 1020 | 5176  | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-2 | 1025 | 5176  | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-2 | 1100 | 6433  | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-2 | 1105 | 6433  | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-2 | 1220 | 23060 | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-2 | 1225 | 23060 | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-2 | 1245 | 4840  | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-2 | 1250 | 4840  | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-2 | 1515 | 16335 | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-2 | 1520 | 16335 | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-2 | 1725 | 11104 | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-2 | 1730 | 11104 | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-2 | 1950 | 6906  | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-2 | 1955 | 6906  | Sun | Polish intel. | PSK | (AB) |
| P03 | 23-2 | 1220 | 23060 | Mon | Polish intel. | PSK | (AB) |
| P03 | 23-2 | 1225 | 23060 | Mon | Polish intel. | PSK | (AB) |
| P03 | 24-2 | 0430 | 6252  | Tue | Polish intel. | PSK | (TM) |
| P03 | 24-2 | 0435 | 6252  | Tue | Polish intel. | PSK | (TM) |
| P03 | 24-2 | 1500 | 10125 | Tue | Polish intel. | PSK | (AB) |
| P03 | 24-2 | 1505 | 10125 | Tue | Polish intel. | PSK | (AB) |
| P03 | 24-2 | 1725 | 11104 | Tue | Polish intel. | PSK | (AB) |
| P03 | 24-2 | 1730 | 11104 | Tue | Polish intel. | PSK | (AB) |
| P03 | 25-2 | 1310 | 9130  | Wed | Polish intel. | PSK | (AB) |
| P03 | 25-2 | 1315 | 9130  | Wed | Polish intel. | PSK | (AB) |
| P03 | 26-2 | 0430 | 6252  | Thu | Polish intel. | PSK | (AB) |
| P03 | 26-2 | 0435 | 6252  | Thu | Polish intel. | PSK | (AB) |
| P03 | 26-2 | 1950 | 6906  | Thu | Polish intel. | PSK | (AB) |
| P03 | 26-2 | 1955 | 6906  | Thu | Polish intel. | PSK | (AB) |
| P03 | 27-2 | 0530 | 4298  | Fri | Polish intel. | PSK | (AB) |
| P03 | 27-2 | 0535 | 4298  | Fri | Polish intel. | PSK | (AB) |
| P03 | 27-2 | 1100 | 6433  | Fri | Polish intel. | PSK | (AB) |
| P03 | 27-2 | 1105 | 6433  | Fri | Polish intel. | PSK | (AB) |
| P03 | 27-2 | 1500 | 10125 | Fri | Polish intel. | PSK | (AB) |
| P03 | 27-2 | 1505 | 10125 | Fri | Polish intel. | PSK | (AB) |
| P03 | 27-2 | 1515 | 16335 | Fri | Polish intel. | PSK | (AB) |
| P03 | 27-2 | 1520 | 16335 | Fri | Polish intel. | PSK | (AB) |

|             |      |      |       |     |               |                  |          |
|-------------|------|------|-------|-----|---------------|------------------|----------|
| <b>P03</b>  | 28-2 | 1020 | 5176  | Sat | Polish intel. | PSK              | (AB-POL) |
| <b>P03</b>  | 28-2 | 1025 | 5176  | Sat | Polish intel. | PSK              | (AB-POL) |
| <b>P03</b>  | 28-2 | 1245 | 4840  | Sat | Polish intel. | PSK              | (AB)     |
| <b>P03</b>  | 28-2 | 1250 | 4840  | Sat | Polish intel. | PSK              | (AB)     |
| <b>P03g</b> | 3-2  | 1100 | 11581 | Tue | Polish intel. | BPSK 50Bd/464bp  | (AB)     |
| <b>P03g</b> | 3-2  | 1105 | 11581 | Tue | Polish intel. | BPSK 50Bd/464bp  | (AB)     |
| <b>P03g</b> | 4-2  | 1100 | 11581 | Wed | Polish intel. | BPSK 50Bd/464bp  | (AB)     |
| <b>P03g</b> | 4-2  | 1105 | 11581 | Wed | Polish intel. | BPSK 50Bd/464bp  | (AB)     |
| <b>P03g</b> | 4-2  | 1315 | 13046 | Wed | Polish intel. | BPSK 50Bd/464bp  | (AB/PY)  |
| <b>P03g</b> | 4-2  | 1320 | 13046 | Wed | Polish intel. | BPSK 50Bd/464bp  | (AB/PY)  |
| <b>P03g</b> | 6-2  | 1315 | 13046 | Fri | Polish intel. | BPSK 50Bd/464bp  | (AB)     |
| <b>P03g</b> | 6-2  | 1320 | 13046 | Fri | Polish intel. | BPSK 50Bd/464bp  | (AB)     |
| <b>P03g</b> | 10-2 | 1100 | 11581 | Tue | Polish intel. | BPSK 50Bd/464bp  | (AB)     |
| <b>P03g</b> | 10-2 | 1105 | 11581 | Tue | Polish intel. | BPSK 50Bd/464bp  | (AB)     |
| <b>P03g</b> | 11-2 | 1100 | 11581 | Wed | Polish intel. | BPSK 50Bd/464bp  | (AB)     |
| <b>P03g</b> | 11-2 | 1105 | 11581 | Wed | Polish intel. | BPSK 50Bd/464bp  | (AB)     |
| <b>P03g</b> | 11-2 | 1315 | 13046 | Wed | Polish intel. | BPSK 50Bd/464bp  | (AB/PY)  |
| <b>P03g</b> | 11-2 | 1320 | 13046 | Wed | Polish intel. | BPSK 50Bd/464bp  | (AB/PY)  |
| <b>P03g</b> | 13-2 | 1315 | 13046 | Fri | Polish intel. | BPSK 50Bd/464bp  | (AB)     |
| <b>P03g</b> | 13-2 | 1320 | 13046 | Fri | Polish intel. | BPSK 50Bd/464bp  | (AB)     |
| <b>P03g</b> | 17-2 | 1100 | 11581 | Tue | Polish intel. | BPSK 50Bd/464bp  | (AB)     |
| <b>P03g</b> | 17-2 | 1105 | 11581 | Tue | Polish intel. | BPSK 50Bd/464bp  | (AB)     |
| <b>P03g</b> | 18-2 | 1100 | 11581 | Wed | Polish intel. | BPSK 50Bd/464bp  | (AB)     |
| <b>P03g</b> | 18-2 | 1105 | 11581 | Wed | Polish intel. | BPSK 50Bd/464bp  | (AB)     |
| <b>P03g</b> | 18-2 | 1315 | 13046 | Wed | Polish intel. | BPSK 50Bd/464bp  | (AB/PY)  |
| <b>P03g</b> | 18-2 | 1320 | 13046 | Wed | Polish intel. | BPSK 50Bd/464bp  | (AB/PY)  |
| <b>P03g</b> | 20-2 | 1315 | 13046 | Fri | Polish intel. | BPSK 50Bd/464bp  | (AB)     |
| <b>P03g</b> | 20-2 | 1320 | 13046 | Fri | Polish intel. | BPSK 50Bd/464bp  | (AB)     |
| <b>P03g</b> | 24-2 | 1100 | 11581 | Tue | Polish intel. | BPSK 50Bd/464bp  | (AB)     |
| <b>P03g</b> | 24-2 | 1105 | 11581 | Tue | Polish intel. | BPSK 50Bd/464bp  | (AB)     |
| <b>P03g</b> | 25-2 | 1100 | 11581 | Wed | Polish intel. | BPSK 50Bd/464bp  | (AB)     |
| <b>P03g</b> | 25-2 | 1105 | 11581 | Wed | Polish intel. | BPSK 50Bd/464bp  | (AB)     |
| <b>P03g</b> | 25-2 | 1315 | 13046 | Wed | Polish intel. | BPSK 50Bd/464bp  | (AB/PY)  |
| <b>P03g</b> | 25-2 | 1320 | 13046 | Wed | Polish intel. | BPSK 50Bd/464bp  | (AB/PY)  |
| <b>P03g</b> | 27-2 | 1315 | 13046 | Fri | Polish intel. | BPSK 50Bd/464bp  | (AB)     |
| <b>P03g</b> | 27-2 | 1320 | 13046 | Fri | Polish intel. | BPSK 50Bd/464bp  | (AB)     |
| <b>P03i</b> | 3-2  | 0725 | 9052  | Tue | Polish intel. | BPSK 100Bd/512bp | (AB)     |
| <b>P03i</b> | 3-2  | 0730 | 9052  | Tue | Polish intel. | BPSK 100Bd/512bp | (AB)     |
| <b>P03i</b> | 5-2  | 0725 | 9052  | Thu | Polish intel. | BPSK 100Bd/512bp | (AB)     |
| <b>P03i</b> | 5-2  | 0730 | 9052  | Thu | Polish intel. | BPSK 100Bd/512bp | (AB)     |
| <b>P03i</b> | 10-2 | 0725 | 9052  | Tue | Polish intel. | BPSK 100Bd/512bp | (AB)     |
| <b>P03i</b> | 10-2 | 0730 | 9052  | Tue | Polish intel. | BPSK 100Bd/512bp | (AB)     |

|      |      |      |       |     |               |                  |      |
|------|------|------|-------|-----|---------------|------------------|------|
| P03i | 12-2 | 0725 | 9052  | Thu | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 12-2 | 0730 | 9052  | Thu | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 17-2 | 0725 | 9052  | Tue | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 17-2 | 0730 | 9052  | Tue | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 19-2 | 0725 | 9052  | Thu | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 19-2 | 0730 | 9052  | Thu | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 24-2 | 0725 | 9052  | Tue | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 24-2 | 0730 | 9052  | Tue | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 26-2 | 0725 | 9052  | Thu | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 26-2 | 0730 | 9052  | Thu | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03j | 2-2  | 1830 | 6906  | Mon | Polish intel. | QPSK 100Bd/504bp | (AB) |
| P03j | 2-2  | 1835 | 6906  | Mon | Polish intel. | QPSK 100Bd/504bp | (AB) |
| P03j | 5-2  | 1830 | 6906  | Thu | Polish intel. | QPSK 100Bd/504bp | (AB) |
| P03j | 5-2  | 1835 | 6906  | Thu | Polish intel. | QPSK 100Bd/504bp | (AB) |
| P03j | 9-2  | 1830 | 6906  | Mon | Polish intel. | QPSK 100Bd/504bp | (AB) |
| P03j | 9-2  | 1835 | 6906  | Mon | Polish intel. | QPSK 100Bd/504bp | (AB) |
| P03j | 12-2 | 1830 | 6906  | Thu | Polish intel. | QPSK 100Bd/504bp | (AB) |
| P03j | 12-2 | 1835 | 6906  | Thu | Polish intel. | QPSK 100Bd/504bp | (AB) |
| P03j | 16-2 | 1830 | 6906  | Mon | Polish intel. | QPSK 100Bd/504bp | (AB) |
| P03j | 16-2 | 1835 | 6906  | Mon | Polish intel. | QPSK 100Bd/504bp | (AB) |
| P03j | 19-2 | 1830 | 6906  | Thu | Polish intel. | QPSK 100Bd/504bp | (AB) |
| P03j | 19-2 | 1835 | 6906  | Thu | Polish intel. | QPSK 100Bd/504bp | (AB) |
| P03j | 23-2 | 1830 | 6906  | Mon | Polish intel. | QPSK 100Bd/504bp | (AB) |
| P03j | 23-2 | 1835 | 6906  | Mon | Polish intel. | QPSK 100Bd/504bp | (AB) |
| P03j | 26-2 | 1830 | 6906  | Thu | Polish intel. | QPSK 100Bd/504bp | (AB) |
| P03j | 26-2 | 1835 | 6906  | Thu | Polish intel. | QPSK 100Bd/504bp | (AB) |
| P03k | 1-2  | 0630 | 7391  | Sun | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 1-2  | 0635 | 7391  | Sun | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 3-2  | 1230 | 18265 | Tue | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 3-2  | 1235 | 18265 | Tue | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 4-2  | 1730 | 6432  | Wed | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 4-2  | 1735 | 6432  | Wed | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 7-2  | 0630 | 7391  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 7-2  | 0635 | 7391  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 7-2  | 1230 | 18265 | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 7-2  | 1235 | 18265 | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 7-2  | 1730 | 6432  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 7-2  | 1735 | 6432  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 8-2  | 0630 | 7391  | Sun | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 8-2  | 0635 | 7391  | Sun | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 10-2 | 1230 | 18265 | Tue | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 10-2 | 1235 | 18265 | Tue | Polish intel. | BPSK 100Bd/480bp | (AB) |

|      |      |      |       |     |               |                  |      |
|------|------|------|-------|-----|---------------|------------------|------|
| P03k | 11-2 | 1730 | 6432  | Wed | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 11-2 | 1735 | 6432  | Wed | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 14-2 | 0630 | 7391  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 14-2 | 0635 | 7391  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 14-2 | 1230 | 18265 | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 14-2 | 1235 | 18265 | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 14-2 | 1730 | 6432  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 14-2 | 1735 | 6432  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 15-2 | 0630 | 7391  | Sun | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 15-2 | 0635 | 7391  | Sun | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 17-2 | 1230 | 18265 | Tue | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 17-2 | 1235 | 18265 | Tue | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 18-2 | 1730 | 6432  | Wed | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 18-2 | 1735 | 6432  | Wed | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 21-2 | 0635 | 7391  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 21-2 | 0640 | 7391  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 21-2 | 1230 | 18265 | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 21-2 | 1235 | 18265 | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 21-2 | 1730 | 6432  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 21-2 | 1735 | 6432  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 22-2 | 0630 | 7391  | Sun | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 22-2 | 0635 | 7391  | Sun | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 24-2 | 1230 | 18265 | Tue | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 24-2 | 1235 | 18265 | Tue | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 25-2 | 1730 | 6432  | Wed | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 25-2 | 1735 | 6432  | Wed | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 28-2 | 0635 | 7391  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 28-2 | 0640 | 7391  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 28-2 | 1230 | 18265 | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 28-2 | 1235 | 18265 | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 28-2 | 1730 | 6432  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 28-2 | 1735 | 6432  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03I | 2-2  | 1200 | 8530  | Mon | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 2-2  | 1205 | 8530  | Mon | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 3-2  | 0920 | 14656 | Tue | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 3-2  | 0925 | 14656 | Tue | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 4-2  | 0800 | 14656 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 4-2  | 0805 | 14656 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 4-2  | 1345 | 11559 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 4-2  | 1350 | 11559 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 5-2  | 1200 | 8530  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 5-2  | 1205 | 8530  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB) |

|      |      |      |       |     |               |                  |      |
|------|------|------|-------|-----|---------------|------------------|------|
| P03I | 5-2  | 1800 | 6480  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 5-2  | 1805 | 6480  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 9-2  | 1200 | 8530  | Mon | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 9-2  | 1205 | 8530  | Mon | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 10-2 | 0920 | 14656 | Tue | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 10-2 | 0925 | 14656 | Tue | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 10-2 | 1800 | 6480  | Tue | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 10-2 | 1805 | 6480  | Tue | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 11-2 | 0800 | 14656 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 11-2 | 0805 | 14656 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 11-2 | 1345 | 11559 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 11-2 | 1350 | 11559 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 12-2 | 1200 | 8530  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 12-2 | 1205 | 8530  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 12-2 | 1800 | 6480  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 12-2 | 1805 | 6480  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 13-2 | 1345 | 11559 | Fri | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 13-2 | 1350 | 11559 | Fri | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 16-2 | 1200 | 8530  | Mon | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 16-2 | 1205 | 8530  | Mon | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 17-2 | 0920 | 14656 | Tue | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 17-2 | 0925 | 14656 | Tue | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 17-2 | 1800 | 6480  | Tue | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 17-2 | 1805 | 6480  | Tue | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 18-2 | 0800 | 14656 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 18-2 | 0805 | 14656 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 18-2 | 1345 | 11559 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 18-2 | 1350 | 11559 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 19-2 | 1200 | 8530  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 19-2 | 1205 | 8530  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 19-2 | 1800 | 6480  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 19-2 | 1805 | 6480  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 20-2 | 1345 | 11559 | Fri | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 20-2 | 1350 | 11559 | Fri | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 23-2 | 1200 | 8530  | Mon | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 23-2 | 1205 | 8530  | Mon | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 24-2 | 0920 | 14656 | Tue | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 24-2 | 0925 | 14656 | Tue | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 24-2 | 1800 | 6480  | Tue | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 24-2 | 1805 | 6480  | Tue | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 25-2 | 0800 | 14656 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03I | 25-2 | 0805 | 14656 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB) |

|      |      |      |       |     |                |                                |      |
|------|------|------|-------|-----|----------------|--------------------------------|------|
| P03I | 25-2 | 1345 | 11559 | Wed | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 25-2 | 1350 | 11559 | Wed | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 26-2 | 1200 | 8530  | Thu | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 26-2 | 1205 | 8530  | Thu | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 26-2 | 1800 | 6480  | Thu | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 26-2 | 1805 | 6480  | Thu | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 27-2 | 1345 | 11559 | Fri | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 27-2 | 1350 | 11559 | Fri | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P07  | 1-2  | 1500 | 10251 | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 1-2  | 1510 | 9333  | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 1-2  | 1520 | 9074  | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 1-2  | 1530 | 8128  | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 1-2  | 1540 | 7691  | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 1-2  | 1550 | 7458  | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 4-2  | 1500 | 10251 | Wed | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 4-2  | 1510 | 9333  | Wed | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 4-2  | 1520 | 9074  | Wed | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 4-2  | 1530 | 8128  | Wed | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 4-2  | 1540 | 7691  | Wed | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 4-2  | 1550 | 7458  | Wed | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 8-2  | 1500 | 10251 | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 8-2  | 1510 | 9333  | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 8-2  | 1520 | 9074  | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 8-2  | 1530 | 8128  | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 8-2  | 1540 | 7691  | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 8-2  | 1550 | 7458  | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 11-2 | 1500 | 10251 | Wed | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 11-2 | 1510 | 9333  | Wed | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 11-2 | 1520 | 9074  | Wed | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 11-2 | 1530 | 8128  | Wed | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 11-2 | 1540 | 7691  | Wed | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 11-2 | 1550 | 7458  | Wed | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 15-2 | 1500 | 10251 | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 15-2 | 1510 | 9333  | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 15-2 | 1520 | 9074  | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 15-2 | 1530 | 8128  | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 15-2 | 1540 | 7691  | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 15-2 | 1550 | 7458  | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 18-2 | 1500 | 10251 | Wed | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 18-2 | 1510 | 9333  | Wed | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 18-2 | 1520 | 9074  | Wed | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 18-2 | 1530 | 8128  | Wed | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |



|     |      |      |          |     |                                                                                                          |                                |       |
|-----|------|------|----------|-----|----------------------------------------------------------------------------------------------------------|--------------------------------|-------|
| P07 | 18-2 | 1540 | 7691     | Wed | Russian intel.                                                                                           | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 18-2 | 1550 | 7458     | Wed | Russian intel.                                                                                           | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 22-2 | 1500 | 10251    | Sun | Russian intel.                                                                                           | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 22-2 | 1510 | 9333     | Sun | Russian intel.                                                                                           | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 22-2 | 1520 | 9074     | Sun | Russian intel.                                                                                           | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 22-2 | 1530 | 8128     | Sun | Russian intel.                                                                                           | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 22-2 | 1540 | 7691     | Sun | Russian intel.                                                                                           | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 22-2 | 1550 | 7458     | Sun | Russian intel.                                                                                           | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 25-2 | 1500 | 10251    | Wed | Russian intel.                                                                                           | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 25-2 | 1510 | 9333     | Wed | Russian intel.                                                                                           | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 25-2 | 1520 | 9074     | Wed | Russian intel.                                                                                           | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 25-2 | 1530 | 8128     | Wed | Russian intel.                                                                                           | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 25-2 | 1540 | 7691     | Wed | Russian intel.                                                                                           | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 25-2 | 1550 | 7458     | Wed | Russian intel.                                                                                           | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| Q26 | 1-2  | 1700 | 5395     | Sun | Message                                                                                                  | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 2-2  | 1700 | 5395     | Mon | Message                                                                                                  | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 3-2  | 1700 | 5395     | Tue | Message                                                                                                  | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 4-2  | 1139 | 4542     | Wed | Message //6876 kHz                                                                                       | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 4-2  | 1139 | 6876     | Wed | Message //4542 kHz                                                                                       | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 4-2  | 1147 | 4152     | Wed | Message //6352 kHz                                                                                       | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 4-2  | 1147 | 6352     | Wed | Message //4152 kHz                                                                                       | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 4-2  | 1700 | 5394.5   | Wed | Message                                                                                                  | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 4-2  | 1743 | 3605.75  | Wed | Message                                                                                                  | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 5-2  | 1700 | 5394.75  | Thu | Message                                                                                                  | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 5-2  | 1800 | 3605,7   | Thu | FFF 1PNA 1PNA 1PNA MSG NR5915 NR8384 NR9269 NR1434 FFF 1PNA 1PNA 1PNA<br>MSG NR5915 NR8384 NR9269 NR1434 | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 5-2  | 1800 | 3605.75  | Thu | FFF 1PNA 1PNA 1PNA MSG NR5915 NR8384 NR9269 NR1434                                                       | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 6-2  | 1800 | 3605.75  | Fri | FFF 1PNA 1PNA 1PNA MSG NR0385 NR7894 NR8384 NR9269 NR1434 ...                                            | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 6-2  | 2338 | 9042     | Fri | DDDD22221111 DDDD22221111 DDDD22221111 ...                                                               | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 8-2  | 1000 | 9042     | Sun | DDDD22221111 DDDD22221111 DDDD22221111 ...                                                               | 4+4 QPSK 75/1000 LSB           | (EW)  |
| Q26 | 8-2  | 1042 | 9042     | Sun | DDDD22221111 DDDD22221111 DDDD22221111 ...                                                               | 4+4 QPSK 75/1000 LSB           | (EW)  |
| Q26 | 8-2  | 2102 | 5394.75  | Sun | Message                                                                                                  | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 9-2  | 1100 | 12762.75 | Mon | Message                                                                                                  | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 9-2  | 1134 | 4542     | Mon | Message //6876 kHz                                                                                       | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 9-2  | 1134 | 6876     | Mon | Message //4542 kHz                                                                                       | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 9-2  | 1150 | 6352     | Mon | Message //9042 kHz                                                                                       | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 9-2  | 1150 | 9042     | Mon | Message //6352 kHz                                                                                       | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 9-2  | 1203 | 4367     | Mon | Message                                                                                                  | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 9-2  | 1302 | 5394.75  | Mon | Message                                                                                                  | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 10-2 | 0900 | 17282    | Tue | XYXYXYXYXY HR CCK / 74ET 74ET DE F3AU F3AU F3AU ... XYXYXYXYXY HR CCX                                    | 4+4 QPSK 75/1000 LSB           | (EW)  |
| Q26 | 10-2 | 1132 | 4542     | Tue | Message //6876 lHz                                                                                       | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 10-2 | 1132 | 6876     | Tue | Message //4542 kHz                                                                                       | 4+4 QPSK 75/1000 LSB           | (JPL) |

|            |      |      |         |     |                                                                                                                              |                      |          |
|------------|------|------|---------|-----|------------------------------------------------------------------------------------------------------------------------------|----------------------|----------|
| <b>Q26</b> | 10-2 | 1143 | 6352    | Tue | Message //9042 kHz                                                                                                           | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 10-2 | 1143 | 9042    | Tue | Message //6352 kHz                                                                                                           | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 10-2 | 1300 | 5394.75 | Tue | Message                                                                                                                      | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 10-2 | 1900 | 3605.75 | Tue | Message                                                                                                                      | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 10-2 | 1900 | 5394.75 | Tue | Message                                                                                                                      | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 11-2 | 0930 | 18586   | Wed | 66666226625266DDDHDBDDDDDDDDDDDDDD 04928 0074 00000 40656C                                                                   | 4+4 QPSK 75/1000 LSB | (EW)     |
| <b>Q26</b> | 11-2 | 1900 | 5394.75 | Wed | Message                                                                                                                      | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 12-2 | 1300 | 5394.75 | Thu | Message                                                                                                                      | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 12-2 | 1700 | 5394.75 | Thu | Message                                                                                                                      | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 16-2 | 1300 | 5394.75 | Mon | Message                                                                                                                      | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 16-2 | 1300 | 8001.75 | Mon | Message                                                                                                                      | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 16-2 | 1605 | 4542.75 | Mon | Message                                                                                                                      | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 16-2 | 1700 | 8001.75 | Mon | Message                                                                                                                      | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 17-2 | 1131 | 4542    | Tue | Message //6876 kHz                                                                                                           | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 17-2 | 1131 | 6876    | Tue | Message //4542 kHz                                                                                                           | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 17-2 | 1135 | 4542    | Tue | Message //6876 kHz                                                                                                           | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 17-2 | 1135 | 6876    | Tue | Message //4542 kHz                                                                                                           | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 17-2 | 1700 | 5394.75 | Tue | Message                                                                                                                      | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 17-2 | 1700 | 8001.75 | Tue | Message                                                                                                                      | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 19-2 | 1100 | 5394.75 | Thu | Message                                                                                                                      | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 19-2 | 1100 | 8001.75 | Thu | Message                                                                                                                      | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 19-2 | 1300 | 5394.75 | Thu | Message                                                                                                                      | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 23-2 | 1146 | 4156    | Mon | Message //4156, 6352, 9042 kHz                                                                                               | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 23-2 | 1146 | 6532    | Mon | Message //4156, 6352, 9042 kHz                                                                                               | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 23-2 | 1146 | 9042    | Mon | Message //4156, 6352, 9042 kHz                                                                                               | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 23-2 | 1300 | 5394.75 | Mon | Message                                                                                                                      | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 23-2 | 1300 | 8001.75 | Mon | Message                                                                                                                      | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 23-2 | 1700 | 5394.75 | Mon | Message                                                                                                                      | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 23-2 | 1700 | 8001.75 | Mon | Message                                                                                                                      | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 27-2 | 1300 | 5394.75 | Fri | Message                                                                                                                      | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 27-2 | 1300 | 8001.75 | Fri | Message                                                                                                                      | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 27-2 | 1700 | 5394.75 | Fri | Message                                                                                                                      | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>Q26</b> | 27-2 | 1700 | 8001.75 | Fri | Message                                                                                                                      | 4+4 QPSK 75/1000 LSB | (JPL)    |
| <b>S06</b> | 2-2  | 0400 | 11616   | Mon | 480 357 60 53745 34897 25625 ... 13416 68074 65748 357 60 00000                                                              | USB                  | (Subilo) |
| <b>S06</b> | 2-2  | 0420 | 9322    | Mon | 480 357 60 53745 34897 25625 ... 13416 68074 65748 357 60 00000                                                              | USB                  | (Subilo) |
| <b>S06</b> | 3-2  | 0400 | 11616   | Tue | 480 357 60 53745 34897 25625 ... 13416 68074 65748 357 60 00000                                                              | USB                  | (Subilo) |
| <b>S06</b> | 3-2  | 0420 | 9322    | Tue | 480 357 60 53745 34897 25625 ... 13416 68074 65748 357 60 00000                                                              | USB                  | (Subilo) |
| <b>S06</b> | 4-2  | 0400 | 11616   | Wed | 480 192 17 35279 04608 25391 ... 87222 62779 18354 192 17 480 735 34 80872<br>83742 93126 ... 12282 68705 38167 735 34 00000 | USB                  | (Subilo) |
| <b>S06</b> | 4-2  | 0420 | 9322    | Wed | 480 192 17 35279 04608 25391 ... 87222 62779 18354 192 17 480 735 34 80872<br>83742 93126 ... 12282 68705 38167 735 34 00000 | USB                  | (Subilo) |
| <b>S06</b> | 4-2  | 1730 | 11486   | Wed | 480 139 48 91456 64169 15792 ... 42163 39381 38171 139 48 0                                                                  | USB                  | (Lac)    |



|     |      |      |       |     |                                                                                                                              |     |          |
|-----|------|------|-------|-----|------------------------------------------------------------------------------------------------------------------------------|-----|----------|
| S06 | 4-2  | 1800 | 6783  | Wed | 480 139 48 91456 64169 15792 ... 42163 39381 38171 139 48 0                                                                  | USB | (Lac)    |
| S06 | 5-2  | 0400 | 11616 | Thu | 480 192 17 35279 04608 25391 ... 87222 62779 18354 192 17 480 735 34 80872<br>83742 93126 ... 12282 68705 38167 735 34 00000 | USB | (Subilo) |
| S06 | 5-2  | 0420 | 9322  | Thu | 480 192 17 35279 04608 25391 ... 87222 62779 18354 192 17 480 735 34 80872<br>83742 93126 ... 12282 68705 38167 735 34 00000 | USB | (Subilo) |
| S06 | 6-2  | 0400 | 11616 | Fri | 480 480 480 00000                                                                                                            | USB | (Subilo) |
| S06 | 6-2  | 0420 | 9322  | Fri | 480 480 480 00000                                                                                                            | USB | (Subilo) |
| S06 | 9-2  | 0400 | 11616 | Mon | 480 619 57 75092 44708 89318 ... 61837 79613 28218 619 57 00000                                                              | USB | (Subilo) |
| S06 | 9-2  | 0420 | 9322  | Mon | 480 619 57 75092 44708 89318 ... 61837 79613 28218 619 57 00000                                                              | USB | (Subilo) |
| S06 | 10-2 | 0400 | 11616 | Tue | 480 619 57 75092 44708 89318 ... 61837 79613 28218 619 57 00000                                                              | USB | (Subilo) |
| S06 | 10-2 | 0420 | 9322  | Tue | 480 619 57 75092 44708 89318 ... 61837 79613 28218 619 57 00000                                                              | USB | (Subilo) |
| S06 | 11-2 | 0400 | 11616 | Wed | 480 237 54 43567 05645 07436 ... 35299 75922 69905 237 54 00000                                                              | USB | (Subilo) |
| S06 | 11-2 | 0420 | 9322  | Wed | 480 237 40 43567 05645 07436 ... 08924 33645 49241 237 40 480 916 20 93607<br>09085 73805 ... 74529 08653 19891 916 20 00000 | USB | (Subilo) |
| S06 | 11-2 | 1730 | 9425  | Wed | 480 921 43 17060 82370 70290 ... 02061 06729 93795 921 43 00000                                                              | USB | (AB/Lac) |
| S06 | 11-2 | 1800 | 6783  | Wed | 480 921 43 17060 82370 70290 ... 02061 06729 93795 921 43 00000                                                              | USB | (AB/Lac) |
| S06 | 12-2 | 0400 | 11616 | Thu | 480 237 40 43567 05645 07436 ... 08924 33645 49241 237 40 480 916 20 93607<br>09085 73805 ... 74529 08653 19891 916 20 00000 | USB | (Subilo) |
| S06 | 12-2 | 0420 | 9322  | Thu | 480 237 40 43567 05645 07436 ... 08924 33645 49241 237 40 480 916 20 93607<br>09085 73805 ... 74529 08653 19891 916 20 00000 | USB | (Subilo) |
| S06 | 13-2 | 0400 | 11616 | Fri | 480 480 480 00000                                                                                                            | USB | (Subilo) |
| S06 | 13-2 | 0420 | 9322  | Fri | 480 480 480 00000                                                                                                            | USB | (Subilo) |
| S06 | 16-2 | 0400 | 11616 | Mon | 480 523 60 87723 80547 77333 ... 74320 21718 96133 523 60 00000                                                              | USB | (Subilo) |
| S06 | 16-2 | 0420 | 9322  | Mon | 480 523 60 87723 80547 77333 ... 74320 21718 96133 523 60 00000                                                              | USB | (Subilo) |
| S06 | 17-2 | 0400 | 11616 | Tue | 480 523 60 87723 80547 77333 ... 74320 21718 96133 523 60 00000                                                              | USB | (Subilo) |
| S06 | 17-2 | 0420 | 9322  | Tue | 480 523 60 87723 80547 77333 ... 74320 21718 96133 523 60 00000                                                              | USB | (Subilo) |
| S06 | 18-2 | 0400 | 11616 | Wed | 480 231 9 71900 86390 19289 ... 16401 64064 42541 231 9 480 769 43 59134 63638<br>10185 ... 83865 14211 08396 769 43 00000   | USB | (Subilo) |
| S06 | 18-2 | 0420 | 9322  | Wed | 480 231 9 71900 86390 19289 ... 16401 64064 42541 231 9 480 769 43 59134 63638<br>10185 ... 83865 14211 08396 769 43 00000   | USB | (Subilo) |
| S06 | 18-2 | 1730 | 9425  | Wed | 480 129 46 67878 65172 15680 ... 85495 63124 50620 129 46 00000                                                              | USB | (AB/Lac) |
| S06 | 18-2 | 1800 | 6783  | Wed | 480 129 46 67878 65172 15680 ... 85495 63124 50620 129 46 00000                                                              | USB | (AB/Lac) |
| S06 | 19-2 | 0400 | 11616 | Thu | 480 231 9 71900 86390 19289 ... 16401 64064 42541 231 9 480 769 43 59134 63638<br>10185 ... 83865 14211 08396 769 43 00000   | USB | (Subilo) |
| S06 | 19-2 | 0420 | 9322  | Thu | 480 231 9 71900 86390 19289 ... 16401 64064 42541 231 9 480 769 43 59134 63638<br>10185 ... 83865 14211 08396 769 43 00000   | USB | (Subilo) |
| S06 | 20-2 | 0400 | 11616 | Fri | 480 480 480 00000                                                                                                            | USB | (Subilo) |
| S06 | 20-2 | 0420 | 9322  | Fri | 480 480 480 00000                                                                                                            | USB | (Subilo) |
| S06 | 20-2 | 1900 | 7923  | Fri | 842 00000                                                                                                                    | USB | (Lac)    |
| S06 | 20-2 | 2000 | 5943  | Fri | 842 00000                                                                                                                    | USB | (Lac)    |
| S06 | 24-2 | 0400 | 11616 | Tue | 480 480 480 00000                                                                                                            | USB | (Subilo) |
| S06 | 24-2 | 0420 | 9322  | Tue | 480 480 480 00000                                                                                                            | USB | (Subilo) |

|             |      |      |       |     |                                                                                                                              |     |                     |
|-------------|------|------|-------|-----|------------------------------------------------------------------------------------------------------------------------------|-----|---------------------|
| <b>S06</b>  | 25-2 | 0400 | 11616 | Wed | 480 695 19 01072 37700 97230 ... 39381 01758 20316 695 19 480 571 32 89888<br>24139 32415 ... 27247 00076 12033 571 32 00000 | USB | (Subilo)            |
| <b>S06</b>  | 25-2 | 0420 | 9322  | Wed | 480 695 19 01072 37700 97230 ... 39381 01758 20316 695 19 480 571 32 89888<br>24139 32415 ... 27247 00076 12033 571 32 00000 | USB | (Subilo)            |
| <b>S06</b>  | 25-2 | 1730 | 9425  | Wed | Not heard                                                                                                                    | USB | (AB)                |
| <b>S06</b>  | 25-2 | 1800 | 6783  | Wed | 480 612 45 71464 61701 ... 81241 72939 75961 612 45 00000                                                                    | USB | (AB/Lac)            |
| <b>S06</b>  | 26-2 | 0400 | 11616 | Thu | 480 695 19 01072 37700 97230 ... 39381 01758 20316 695 19 480 571 32 89888<br>24139 32415 ... 27247 00076 12033 571 32 00000 | USB | (Subilo)            |
| <b>S06</b>  | 26-2 | 0420 | 9322  | Thu | 480 695 19 01072 37700 97230 ... 39381 01758 20316 695 19 480 571 32 89888<br>24139 32415 ... 27247 00076 12033 571 32 00000 | USB | (Subilo)            |
| <b>S06</b>  | 27-2 | 0400 | 11616 | Fri | 480 480 480 00000                                                                                                            | USB | (Subilo)            |
| <b>S06</b>  | 27-2 | 0420 | 9322  | Fri | 480 480 480 00000                                                                                                            | USB | (Subilo)            |
| <b>S07</b>  | 6-2  | 1900 | 7923  | Fri | 842 842 842 00000                                                                                                            | USB | (AB)                |
| <b>S07</b>  | 6-2  | 2000 | 5943  | Fri | 842 842 842 00000                                                                                                            | USB | (AB)                |
| <b>S07</b>  | 6-2  | 2000 | 5943  | Fri | 842 842 842 00000                                                                                                            | USB | (AB)                |
| <b>S07</b>  | 20-2 | 1900 | 7923  | Fri | 842 842 842 00000                                                                                                            | USB | (AB)                |
| <b>S11a</b> | 1-2  | 0830 | 5371  | Sun | 376/00 Konets                                                                                                                | USB | (AB)                |
| <b>S11a</b> | 2-2  | 0700 | 9050  | Mon | 476/00 Konets                                                                                                                | USB | (AB/Lac)            |
| <b>S11a</b> | 2-2  | 0915 | 6252  | Mon | 482/00 Konets                                                                                                                | USB | (AB/Lac)            |
| <b>S11a</b> | 3-2  | 0445 | 11559 | Tue | Active, too weak to copy                                                                                                     | USB | (TM)                |
| <b>S11a</b> | 3-2  | 1400 | 10448 | Tue | 422/34 Vnimanaye 84938 74812 74677 ... 61202 84401 57302 Vnimanaye (msg rptd)<br>Konets                                      | USB | (AB/Lac)            |
| <b>S11a</b> | 4-2  | 0725 | 19515 | Wed | 380/00 Konets                                                                                                                | USB | (AB/Lac)            |
| <b>S11a</b> | 4-2  | 1850 | 11486 | Wed | 281/00 Konets                                                                                                                | USB | (AB-POL/Lac)        |
| <b>S11a</b> | 5-2  | 0700 | 9050  | Thu | 477/00 Konets                                                                                                                | USB | (AB)                |
| <b>S11a</b> | 6-2  | 1040 | 6252  | Fri | 482/00 Konets                                                                                                                | USB | (AB)                |
| <b>S11a</b> | 6-2  | 1400 | 10448 | Fri | 422/34 Vnimanaye 84938 74812 74677 ... 61202 84401 57302 Vnimanaye (msg rptd)<br>Konets                                      | USB | (AB)                |
| <b>S11a</b> | 7-2  | 0830 | 5371  | Sat | 378/00 Konets                                                                                                                | USB | (AB)                |
| <b>S11a</b> | 7-2  | 1850 | 11486 | Sat | 281/00 Konets                                                                                                                | USB | (AB)                |
| <b>S11a</b> | 8-2  | 0830 | 5371  | Sun | 379/00 Konets                                                                                                                | USB | (AB)                |
| <b>S11a</b> | 9-2  | 0700 | 9050  | Mon | 470/00 Konets                                                                                                                | USB | (AB)                |
| <b>S11a</b> | 9-2  | 0915 | 6252  | Mon | 480/35 Vnimanaye 50809 85324 79697 ... 12680 24395 24474 Vnimanaye (msg rptd)<br>Konets                                      | USB | (AB-POL/Lac/Subilo) |
| <b>S11a</b> | 10-2 | 1400 | 10448 | Tue | 426/00 Konets                                                                                                                | USB | (AB/Lac)            |
| <b>S11a</b> | 11-2 | 0725 | 19515 | Wed | 382/00 Konets                                                                                                                | USB | (AB)                |
| <b>S11a</b> | 11-2 | 1850 | 11486 | Wed | 288/00 Konets                                                                                                                | USB | (AB/Lac)            |
| <b>S11a</b> | 12-2 | 0700 | 9050  | Thu | 477/00 Konets                                                                                                                | USB | (AB/Lac)            |
| <b>S11a</b> | 13-2 | 0725 | 19515 | Fri | 387/00 Konets                                                                                                                | USB | (AB/Lac)            |
| <b>S11a</b> | 13-2 | 1040 | 6252  | Fri | 480/35 Vnimanaye 50809 85324 79697 ... 12680 24395 24474 Vnimanaye (msg rptd)<br>Konets                                      | USB | (AB-POL/Lac/Subilo) |
| <b>S11a</b> | 13-2 | 1400 | 10448 | Fri | 421/00 Konets                                                                                                                | USB | (AB/Lac)            |

|             |      |      |       |     |                                                                                      |     |                 |
|-------------|------|------|-------|-----|--------------------------------------------------------------------------------------|-----|-----------------|
| <b>S11a</b> | 14-2 | 0830 | 5371  | Sat | 372/00 Konets                                                                        | USB | (AB)            |
| <b>S11a</b> | 14-2 | 1850 | 11486 | Sat | 288/00 Konets                                                                        | USB | (AB)            |
| <b>S11a</b> | 15-2 | 0830 | 5371  | Sun | 373/00 Konets                                                                        | USB | (AB/Lac)        |
| <b>S11a</b> | 16-2 | 0700 | 9050  | Mon | 475/34 Vnimanaye 36652 03407 95882 ... 44297 11412 26532 Vnimanaye (msg rptd) Konets | USB | (AB/Lac)        |
| <b>S11a</b> | 16-2 | 0915 | 6252  | Mon | 485/00 Konets                                                                        | USB | (AB/Lac)        |
| <b>S11a</b> | 17-2 | 0445 | 11559 | Tue | 796/35 Vnimanaye 57108 95717 94103 ... 63836 37373 26858 Vnimanaye (msg rptd) Konets | USB | (Subilo)        |
| <b>S11a</b> | 17-2 | 1400 | 10448 | Tue | 427/00 Konets                                                                        | USB | (AB/Lac)        |
| <b>S11a</b> | 18-2 | 0725 | 19515 | Wed | 384/00 Konets                                                                        | USB | (AB/Lac)        |
| <b>S11a</b> | 18-2 | 1850 | 11486 | Wed | 281/31 Vnimanaye 70313 67891 96744 ... 19442 38884 25274 Vnimanaye (msg rptd) Konets | USB | (AB/Lac)        |
| <b>S11a</b> | 19-2 | 0445 | 11559 | Thu | 796/35 Vnimanaye 57108 95717 94103 ... 63836 37373 26858 Vnimanaye (msg rptd) Konets | USB | (AB/Subilo)     |
| <b>S11a</b> | 19-2 | 0700 | 9050  | Thu | 475/34 Vnimanaye 36652 03407 95882 ... 44297 11412 26532 Vnimanaye (msg rptd) Konets | USB | (AB/Lac)        |
| <b>S11a</b> | 20-2 | 0725 | 19515 | Fri | 382/00 Konets                                                                        | USB | (AB/Lac)        |
| <b>S11a</b> | 20-2 | 1040 | 6252  | Fri | 481/00 Konets                                                                        | USB | (AB/Lac)        |
| <b>S11a</b> | 20-2 | 1400 | 10448 | Fri | 420/00 Konets                                                                        | USB | (AB/Lac)        |
| <b>S11a</b> | 21-2 | 0830 | 5371  | Sat | 371/34 Vnimanaye 60742 35660 94216 ... 98378 66645 51877 Vnimanaye (msg rptd) Konets | USB | (AB/Lac)        |
| <b>S11a</b> | 21-2 | 1845 | 11486 | Sat | 288/31                                                                               | USB | (Lac)           |
| <b>S11a</b> | 21-2 | 1850 | 11486 | Sat | 288/31 Vnimanaye 18790 04578 14008 ... 58406 15032 50472 Vnimanaye (msg rptd) Konets | USB | (AB/Subilo)     |
| <b>S11a</b> | 22-2 | 0830 | 5371  | Sun | 371/34 Vnimanaye 60742 35660 94216 ... 98378 66645 51877 Vnimanaye (msg rptd) Konets | USB | (AB/Lac/Subilo) |
| <b>S11a</b> | 23-2 | 0510 | 21906 | Mon | 654/34 Vnimanaye 60952 26348 13067 ... 30998 36300 15313 Vnimanaye (msg rptd) Konets | USB | (Subilo)        |
| <b>S11a</b> | 23-2 | 0700 | 9050  | Mon | 477/00 Konets                                                                        | USB | (AB/Lac)        |
| <b>S11a</b> | 23-2 | 0915 | 6252  | Mon | 482/00 Konets                                                                        | USB | (AB/Lac)        |
| <b>S11a</b> | 24-2 | 1400 | 10448 | Tue | 425/00 Konets                                                                        | USB | (AB/Lac)        |
| <b>S11a</b> | 25-2 | 0725 | 19515 | Wed | 385/33 Vnimanaye 84319 80629 79951 ... 98510 15136 22797 Vnimanaye (msg rptd) Konets | USB | (AB/Lac)        |
| <b>S11a</b> | 25-2 | 1850 | 11486 | Wed | 281/00 Konets                                                                        | USB | (AB/Lac)        |
| <b>S11a</b> | 26-2 | 0510 | 21906 | Thu | 654/34 Vnimanaye 60952 26348 13067 ... 30998 36300 15313 Vnimanaye (msg rptd) Konets | USB | (Subilo)        |
| <b>S11a</b> | 26-2 | 0700 | 9050  | Thu | 471/00 Konets                                                                        | USB | (AB/Lac)        |
| <b>S11a</b> | 27-2 | 0725 | 19515 | Fri | 385/33 Vnimanaye 84319 80629 79951 ... 98510 15136 22797 Vnimanaye (msg rptd) Konets | USB | (AB-POL)        |
| <b>S11a</b> | 27-2 | 1040 | 6252  | Fri | 484/00 Konets                                                                        | USB | (AB/Lac)        |
| <b>S11a</b> | 27-2 | 1400 | 10448 | Fri | 426/00 Konets                                                                        | USB | (AB/Lac)        |
| <b>S11a</b> | 28-2 | 0830 | 5371  | Sat | 371/00 Konets                                                                        | USB | (AB)            |

|             |      |      |       |     |                                                                                         |                  |          |
|-------------|------|------|-------|-----|-----------------------------------------------------------------------------------------|------------------|----------|
| <b>S11a</b> | 28-2 | 1850 | 11486 | Sat | 287/00 Konets                                                                           | USB              | (AB)     |
| <b>TUN</b>  | 26-2 | 0834 | 19675 | Thu | STAT155: MFA Tunis                                                                      | Mil-STD-188-141A | (Hiram)  |
| <b>TUN</b>  | 26-2 | 0837 | 19675 | Thu | STAT17: UNID Tunisian diplomatic network                                                | Mil-STD-188-141A | (Hiram)  |
| <b>TUN</b>  | 26-2 | 0838 | 23540 | Thu | STAT24: Tunisian embassy Rome sounding                                                  | Mil-STD-188-141A | (Hiram)  |
| <b>UM04</b> | 1-2  | 0800 | 4735  | Sun | VVV VVV PROMRCh = 01 02 = 1000 0920 0970 1160 1680 ... 0800 0550 0590 0720<br>1060 = AR | CW               | (AB)     |
| <b>UM04</b> | 2-2  | 0800 | 4735  | Mon | Barely audible                                                                          | CW               | (AB-HNG) |
| <b>UM04</b> | 3-2  | 0800 | 4735  | Tue | VVV VVV PROMRCh = 03 02 = 1000 0940 1000 1180 1720 ... 0800 0560 0600 0730<br>1090 = AR | CW               | (AB-HNG) |
| <b>UM04</b> | 4-2  | 0800 | 4735  | Wed | VVV VVV PROMRCh = 04 02 = 1000 0760 1010 1200 1740 ... 0800 0570 0620 0750<br>1100 = AR | CW               | (AB-GRC) |
| <b>UM04</b> | 6-2  | 0805 | 4735  | Fri | VVV VVV PROMRCh = 06 02 = 1000 1000 1050 1240 1790 ... 0800 0600 0640 0780<br>1140 = AR | CW               | (AB-GRC) |
| <b>UM04</b> | 7-2  | 0800 | 4735  | Sat | VVV VVV PROMRCh = 07 02 = 1000 1030 1080 1270 1820 ... 0800 0610 0650 0790<br>1160 = AR | CW               | (AB-GRC) |
| <b>UM04</b> | 8-2  | 0800 | 4735  | Sun | VVV VVV PROMRCh = 08 02 = 1000 0990 1040 1230 1770 ... 0800 0610 0650 0780<br>1200 = AR | CW               | (AB)     |
| <b>UM04</b> | 9-2  | 0800 | 4735  | Mon | VVV VVV PROMRCh = 09-02 = _000 0990 1050 1230 1780 ... 0800 0620 0660 0700<br>1170 = AR | CW               | (AB-HNG) |
| <b>UM04</b> | 10-2 | 0807 | 4735  | Tue | VVV VVV PROMRCh = 10 02 = 1000 1000 1050 1230 1780 ... 0800 0620 0660 0800<br>1180 = AR | CW               | (AB-HNG) |
| <b>UM04</b> | 11-2 | 0759 | 4735  | Wed | VVV VVV PROMRCh = 11 02 = 1000 0960 1010 1200 1740 ... 0800 0630 0680 0820<br>1200 = AR | CW               | (AB-GRC) |
| <b>UM04</b> | 12-2 | 0802 | 4375  | Thu | VVV VVV PROMRCh = 12 02 = 1000 0990 1050 1230 1770 ... 0800 0640 0680 0830<br>1220 = AR | CW               | (AB-HNG) |
| <b>UM04</b> | 13-2 | 0800 | 4735  | Fri | VVV VVV PROMRCh = 13 02 = 1000 0990 1040 1220 1750 ... 0800 0650 0690 0830<br>1230 = AR | CW               | (AB-GRC) |
| <b>UM04</b> | 14-2 | 0800 | 4735  | Sat | VVV VVV PROMRCh = 14 02 = 1000 0980 1040 1220 1750 ... 0800 0650 0700 0840<br>1240 = AR | CW               | (AB-GRC) |
| <b>UM04</b> | 15-2 | 0800 | 4735  | Sun | VVV VVV PROMRCh = 15 02 = 1000 0980 1030 1210 1740 ... 0800 0660 0700 0850<br>1250 = AR | CW               | (AB)     |
| <b>UM04</b> | 16-2 | 0800 | 4735  | Mon | VVV VVV PROMRCh = 16 02 = 1000 0980 1030 1210 1740 ... 0800 0660 0700 0850<br>1260 = AR | CW               | (AB-HNG) |
| <b>UM04</b> | 17-2 | 0800 | 4735  | Tue | VVV VVV PROMRCh = 17 02 = 1000 0980 1030 1220 1750 ... 0800 0660 0710 0860<br>1260 = AR | CW               | (AB-HNG) |
| <b>UM04</b> | 18-2 | 0802 | 4735  | Wed | VVV VVV PROMRCh = 18 02 = 1000 0970 1030 1200 1730 ... 0800 0660 0740 0860<br>1270 = AR | CW               | (AB-GRC) |
| <b>UM04</b> | 21-2 | 0800 | 4735  | Sat | VVV VVV PROMRCh = 21 02 = 1000 0950 1000 1170 1680 ... 0800 0670 0720 0870<br>1290 = AR | CW               | (AB-GRC) |
| <b>UM04</b> | 22-2 | 0800 | 4735  | Sun | VVV VVV PROMRCh = 22 02 = 1000 0940 0990 1170 1680 ... 0800 0670 0720 0870<br>1280 = AR | CW               | (AB)     |
| <b>UM04</b> | 23-2 | 0800 | 4735  | Mon | VVV VVV PROMRCh = 23 02 = 1000 0940 0990 1160 1670 ... 0800 0670 0720 0870<br>1290 = AR | CW               | (AB-HNG) |

|             |      |      |      |     |                                                                                         |    |          |
|-------------|------|------|------|-----|-----------------------------------------------------------------------------------------|----|----------|
| <b>UM04</b> | 24-2 | 0800 | 4735 | Tue | VVV VVV PROMRCh = 24 02 = 1000 0940 0990 1160 1670 ... 0800 0670 0720 0870<br>1290 = AR | CW | (AB-HNG) |
| <b>UM04</b> | 25-2 | 0800 | 4735 | Wed | VVV VVV PROMRCh = 25 02 = 1000 0930 0980 1160 1670 ... 0800 0670 0720 0870<br>1290 = AR | CW | (AB-GRC) |
| <b>UM04</b> | 27-2 | 0801 | 4735 | Fri | VVV VVV PROMRCh = 27 02 = 1000 0930 0980 1150 1660 ... 0800 0670 0720 0870<br>1290 = AR | CW | (AB-HNG) |
| <b>UM04</b> | 28-2 | 0800 | 4735 | Sat | VVV VVV PROMRCh = 28 02 = 1000 0930 0980 1150 1660 ... 0800 0680 0720 0880<br>1300 = AR | CW | (AB-GRC) |
| <b>UM10</b> | 1-2  | 1240 | 3718 | Sun | 7CJK (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 1-2  | 1240 | 3718 | Sun | 7CJK (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 1-2  | 1250 | 3326 | Sun | U34D (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 1-2  | 1250 | 4112 | Sun | U34D (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 1-2  | 1320 | 3326 | Sun | U34D (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 1-2  | 1320 | 4112 | Sun | U34D (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 4-2  | 1710 | 3531 | Wed | JZZN (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 4-2  | 1710 | 4310 | Wed | JZZN (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 4-2  | 1720 | 3326 | Wed | U34D (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 4-2  | 1720 | 4112 | Wed | U34D (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 4-2  | 1740 | 3531 | Wed | JZZN (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 4-2  | 1740 | 4310 | Wed | JZZN (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 4-2  | 1805 | 3250 | Wed | VI4T (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 4-2  | 1805 | 3975 | Wed | VI4T (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 8-2  | 1910 | 3531 | Sun | JZZN (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 8-2  | 1910 | 4310 | Sun | JZZN (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 8-2  | 1935 | 3250 | Sun | VI4T (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 8-2  | 1935 | 3975 | Sun | VI4T (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 8-2  | 1940 | 3531 | Sun | JZZN (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 8-2  | 1940 | 4310 | Sun | JZZN (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 12-2 | 1210 | 3531 | Thu | JZZN (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 12-2 | 1210 | 4310 | Thu | JZZN (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 13-2 | 1735 | 3250 | Fri | VI4T (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 13-2 | 1735 | 3975 | Fri | VI4T (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 17-2 | 1210 | 3531 | Tue | JZZN (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 17-2 | 1210 | 4310 | Tue | JZZN (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 17-2 | 1705 | 3250 | Tue | VI4T (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 17-2 | 1705 | 3975 | Tue | VI4T (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 27-2 | 1205 | 3250 | Fri | VI4T (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 27-2 | 1205 | 3975 | Fri | VI4T (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 27-2 | 1210 | 3531 | Fri | JZZN (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 27-2 | 1210 | 3531 | Fri | JZZN (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 27-2 | 1210 | 4310 | Fri | JZZN (R10m)                                                                             | CW | (JPL)    |
| <b>UM10</b> | 27-2 | 1210 | 4310 | Fri | JZZN (R10m)                                                                             | CW | (JPL)    |

|      |      |      |         |     |                                                                                          |                  |         |
|------|------|------|---------|-----|------------------------------------------------------------------------------------------|------------------|---------|
| UM10 | 27-2 | 1640 | 3531    | Fri | JZZN (R10m)                                                                              | CW               | (JPL)   |
| UM10 | 27-2 | 1640 | 4310    | Fri | JZZN (R10m)                                                                              | CW               | (JPL)   |
| USA  | 9-2  | 1420 | 8058.6  | Mon | KWB48: RIMC, Frankfurt am Main clg KWT91: US embassy Berlin                              | Mil-STD-188-141A | (AB)    |
| USA  | 9-2  | 1420 | 8058.6  | Mon | KWT91: US embassy Berlin clg KWB48: RIMC, Frankfurt am Main                              | Mil-STD-188-141A | (AB)    |
| USA  | 23-2 | 0740 | 13503.6 | Mon | KWU47: US embassy Kiev Sounding THIS IS (Hiram)                                          | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 0740 | 20810.6 | Mon | KVX55: US embassy Tallinn clg KWU47: US embassy Kiev (Hiram)                             | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 0741 | 10733.6 | Mon | KWU47: US embassy Kiev Call ACK to KVX50: US embassy Moskva (Hiram)                      | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 0827 | 11168.6 | Mon | KWT50: US embassy Den Haag clg KWX93: US embassy Reykjavik (Hiram)                       | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 0846 | 24883.6 | Mon | KWI26: US embassy Bangui clg KSN21: US embassy Yaounde (Hiram)                           | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 0851 | 16283.6 | Mon | KWI26: US embassy Bangui clg KMN93: DoS Springfield (Hiram)                              | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 0852 | 16283.6 | Mon | KSN21: US embassy Yaounde clg KWI26: US embassy Bangui (Hiram)                           | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 0903 | 20810.6 | Mon | KSN21: US embassy Yaounde Sounding THIS IS (Hiram)                                       | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 0904 | 18248.6 | Mon | KWI26: US embassy Bangui Call ACK to KSN21: US embassy Yaounde (Hiram)                   | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 1011 | 11168.6 | Mon | KWB48: RIMC Frankfurt clg KVX55: US embassy Tallinn (Hiram)                              | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 1014 | 24883.6 | Mon | KVX55: US embassy Tallinn Call ACK to KWB48: RIMC Frankfurt (Hiram)                      | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 1018 | 18248.6 | Mon | KVX55: US embassy Tallinn sounding THIS WAS (Hiram)                                      | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 1018 | 20810.6 | Mon | KVX55: US embassy Tallinn clg KWU47: US embassy Kiev (Hiram)                             | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 1018 | 24883.6 | Mon | KVX55: US embassy Tallinn clg KWU47: US embassy Kiev (Hiram)                             | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 1029 | 16283.6 | Mon | KVX55: US embassy Tallinn clg KWQ36: US embassy Stockholm (Hiram)                        | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 1029 | 18248.6 | Mon | KVX55: US embassy Tallinn clg KWQ36: US embassy Stockholm (Hiram)                        | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 1029 | 20810.6 | Mon | KVX55: US embassy Tallinn clg KWQ36: US embassy Stockholm (Hiram)                        | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 1030 | 11168.6 | Mon | KVX55: US embassy Tallinn Sounding THIS IS (Hiram)                                       | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 1044 | 8058.6  | Mon | KWQ36: US embassy Stockholm clg KVX55: US embassy Tallinn (Hiram)                        | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 1045 | 10733.6 | Mon | KWQ36: US embassy Stockholm clg KVX55: US embassy Tallinn (Hiram)                        | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 1046 | 11168.6 | Mon | KWQ36: US embassy Stockholm clg KVX55: US embassy Tallinn (Hiram)                        | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 1046 | 13503.6 | Mon | KWQ36: US embassy Stockholm clg KVX55: US embassy Tallinn (Hiram)                        | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 1046 | 20810.6 | Mon | KVX55: US embassy Tallinn Call ACK to KWW25: US embassy Oslo (Hiram)                     | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 1047 | 11168.6 | Mon | KVX55: US embassy Tallinn Call ACK to KWW25: US embassy Oslo (Hiram)                     | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 1049 | 13503.6 | Mon | KVX55: US embassy Tallin Call EST to KVX56: US embassy Helsinki Europe (Hiram)           | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 1049 | 18248.6 | Mon | KVX54: US embassy Riga Call ACK to KVX56: US embassy Helsinki (Hiram)                    | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 1049 | 20810.6 | Mon | KVX55: US embassy Tallinn clg KVX54: US embassy Riga (Hiram)                             | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 1050 | 11168.6 | Mon | KVX55: US embassy Tallin Europe Sounding THIS WAS (Hiram)                                | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 1052 | 11168.6 | Mon | KVX53: US embassy Vilnius Sounding THIS IS (Hiram)                                       | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 1056 | 11168.6 | Mon | KVX55: US embassy Tallin Europe Sounding THIS WAS (Hiram)                                | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 1215 | 10733.6 | Mon | KWA37: US Permanent Mission to the UN, Geneva Call ACK to KWT98: US embassy Bern (Hiram) | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 1215 | 11168.6 | Mon | KWT98: US embassy Bern clg KWA (Hiram)                                                   | Mil-STD-188-141A | (Hiram) |
| USA  | 23-2 | 1216 | 8058.6  | Mon | KWT98: US embassy Bern clg KWA37: US Permanent Mission to thr UN, Geneva (Hiram)         | Mil-STD-188-141A | (Hiram) |
| USA  | 25-2 | 0832 | 8058.6  | Wed | KWT50: US embassy The Hague sounding                                                     | Mil-STD-188-141A | (Hiram) |
| USA  | 25-2 | 1152 | 8058.6  | Wed | KWT95: US embassy Luxembourg clg KWB48: RIMC Frankfurt                                   | Mil-STD-188-141A | (Hiram) |
| V07  | 1-2  | 0200 | 15817   | Sun | 238 238 238 000                                                                          | USB              | (Dan)   |



|     |      |      |        |     |                                                                                       |                 |           |
|-----|------|------|--------|-----|---------------------------------------------------------------------------------------|-----------------|-----------|
| V07 | 8-2  | 0200 | 15817  | Sun | 238 238 238 1 4919 116 4919 116 02632 79329 99914 92231 95932 ... 98886 25454 000 000 | USB             | (Dan)     |
| V07 | 15-2 | 0200 | 15817  | Sun | 238 238 238 1 3478 114 3478 114 95803 37325 32223 73220 08198 ... 02445 02577 000 000 | USB             | (Dan)     |
| V07 | 22-2 | 0200 | 15817  | Sun | 238 238 238 1 7304 73 7304 73 11514 34217 57229 78703 ... 02610 41519 000 000         | USB             | (Dan)     |
| V28 | 23-2 | 2100 | 3039.4 | Mon | Parrot, messages in Korean                                                            | AM              | (HK)      |
| V28 | 23-2 | 2104 | 5501.4 | Mon | Parrot, messages in Korean                                                            | AM              | (HK)      |
| V28 | 26-2 | 0856 | 5218.4 | Thu | Parrot, messages in Korean. Male operator                                             | AM              | (HK)      |
| V28 | 26-2 | 0856 | 5490.8 | Thu | Parrot, tests in Korean 1,2,1,2... Male operator                                      | AM              | (HK)      |
| V28 | 26-2 | 0900 | 5225   | Thu | Parrot, messages in Korean. Male operator                                             | AM              | (HK)      |
| V28 | 26-2 | 0900 | 5491.4 | Thu | Parrot, messages in Korean. Female operator                                           | AM              | (HK)      |
| V32 | 28-2 | 1800 | 7910   | Sat | Farsi numbers station                                                                 | USB             | (linkz)   |
| X-- | 18-2 | 0937 | 18564  | Wed | Russian intel.                                                                        | MSK-13/MFSK-21  | (AB)      |
| X-- | 18-2 | 0941 | 16256  | Wed | Russian intel.                                                                        | MSK-13/MFSK-21  | (AB)      |
| X-- | 18-2 | 0947 | 15624  | Wed | Russian intel.                                                                        | MSK-13/MFSK-21  | (AB)      |
| X-- | 25-2 | 1433 | 19854  | Wed | Russian diplo                                                                         | MFSK-13/MFSK-21 | (AB)      |
| X-- | 25-2 | 1436 | 18564  | Wed | Russian diplo                                                                         | MFSK-13/MFSK-21 | (AB)      |
| X06 | 2-2  | 0837 | 12152  | Mon | MFA Moscow clg 432516: Russian embassy Bern                                           | MFSK-6          | (Moon)    |
| X06 | 3-2  | 0837 | 17454  | Tue | MFA Moscow clg 325614: Russian embassy Nairobi                                        | MFSK-6          | (AB/Moon) |
| X06 | 3-2  | 0841 | 17454  | Tue | MFA Moscow clg 325614: Russian embassy Nairobi                                        | MFSK-6          | (Moon)    |
| X06 | 5-2  | 0823 | 14447  | Thu | MFA Moscow clg 162543: Russian embassy Nicosia                                        | MFSK-6          | (Moon)    |
| X06 | 5-2  | 0934 | 16103  | Thu | MFA Moscow clg 645321: Russian Consulate General Ho Chi Minh City                     | MFSK-6          | (Moon)    |
| X06 | 6-2  | 0908 | 16219  | Fri | MFA Moscow clg 324615: Russian embassy Madrid                                         | MFSK-6          | (AB)      |
| X06 | 6-2  | 0915 | 16219  | Fri | MFA Moscow clg 324615: Russian embassy Madrid                                         | MFSK-6          | (RO)      |
| X06 | 6-2  | 1027 | 14824  | Fri | MFA Moscow clg 625413: Russian embassy Tel Aviv (off at 1034z)                        | MFSK-6          | (AB/Moon) |
| X06 | 6-2  | 1036 | 14824  | Fri | MFA Moscow clg 625413: Russian embassy Tel Aviv (off at 1042z)                        | MFSK-6          | (AB)      |
| X06 | 8-2  | 1032 | 15810  | Sun | MFA Moscow clg 145632: Russian embassy Algiers                                        | MFSK-6          | (RO)      |
| X06 | 8-2  | 1037 | 15810  | Sun | MFA Moscow clg 145632: Russian embassy Algiers                                        | MFSK-6          | (RO)      |
| X06 | 9-2  | 0826 | 17475  | Mon | MFA Moscow clg 156234: Russian embassy Kampala                                        | MFSK-6          | (Moon)    |
| X06 | 10-2 | 0802 | 14861  | Tue | MFA Moscow clg 542136: Russian embassy Beijing                                        | MFSK-6          | (Moon)    |
| X06 | 10-2 | 0811 | 11545  | Tue | MFA Moscow clg 534216: Russian embassy Baghdad                                        | MFSK-6          | (Moon)    |
| X06 | 11-2 | 0826 | 10814  | Wed | MFA Moscow clg 412356: Russian embassy Budapest                                       | MFSK-6          | (Moon)    |
| X06 | 12-2 | 0803 | 16153  | Thu | MFA Moscow clg 153624: Russian embassy Damascus                                       | MFSK-6          | (AB/Moon) |
| X06 | 13-2 | 1103 | 17456  | Fri | MFA Moscow clg 216354: Russian Consulate General Chennai                              | MFSK-6          | (Moon)    |
| X06 | 16-2 | 1028 | 13460  | Mon | MFA Moscow clg 165324: Russian embassy Vienna                                         | MFSK-6          | (JBj)     |
| X06 | 18-2 | 1059 | 16115  | Wed | MFA Moscow clg 215346: Russian Consulate General Mumbai                               | MFSK-6          | (AB)      |
| X06 | 22-2 | 0929 | 16060  | Sun | MFA Moscow clg 261453: Russian embassy Cairo                                          | MFSK-6          | (AB/RO)   |
| X06 | 22-2 | 1048 | 15810  | Sun | MFA Moscow clg 145632: Russian embassy Algiers                                        | MFSK-6          | (Moon)    |
| X06 | 22-2 | 1053 | 14414  | Sun | MFA Moscow clg 145632: Russian embassy Algiers                                        | MFSK-6          | (AB/Moon) |
| X06 | 24-2 | 0755 | 11545  | Tue | MFA Moscow clg 534216: Russian embassy Baghdad                                        | MFSK-6          | (Moon)    |
| X06 | 24-2 | 1012 | 20813  | Tue | MFA Moscow clg 216354: Russian Consulate General Chennai                              | MFSK-6          | (Moon)    |
| X06 | 25-2 | 0741 | 20334  | Wed | MFA Moscow clg 164253: Russian embassy Addis Ababa                                    | MFSK-6          | (Moon)    |

|             |      |      |       |     |                                                             |              |        |
|-------------|------|------|-------|-----|-------------------------------------------------------------|--------------|--------|
| <b>X06</b>  | 26-2 | 0800 | 16153 | Thu | MFA Moscow clg 153624: Russian embassy Damascus             | MFSK-6       | (Moon) |
| <b>X06</b>  | 27-2 | 0925 | 10653 | Fri | MFA Moscow clg 356412: Russian embassy Berlin               | MFSK-6       | (AB)   |
| <b>X06b</b> | 16-2 | 0639 | 12250 | Mon | 111666 (off 0802z)                                          | MFSK-6       | (AB)   |
| <b>X06b</b> | 16-2 | 1151 | 13400 | Mon | 111666 (off 1244z)                                          | MFSK-6       | (AB)   |
| <b>X06b</b> | 16-2 | 1249 | 15400 | Mon | 111666 (off 1254z)                                          | MFSK-6       | (AB)   |
| <b>XPA1</b> | 4-2  | 1310 | 14374 | Wed | 334 334 334 1 06982 00301 62391 ... 33578 20028 50511       | MFSK-20/10Bd | (AB)   |
| <b>XPA1</b> | 4-2  | 1330 | 13374 | Wed | 334 334 334 1 06982 00301 62391 ... 33578 20028 50511       | MFSK-20/10Bd | (AB)   |
| <b>XPA1</b> | 4-2  | 1350 | 11474 | Wed | 334 334 334 1 06982 00301 62391 ... 33578 20028 50511       | MFSK-20/10Bd | (AB)   |
| <b>XPA1</b> | 6-2  | 1310 | 14374 | Fri | 334 334 334 1 06982 00301 62391 ... 33578 20028 50511       | MFSK-20/10Bd | (AB)   |
| <b>XPA1</b> | 6-2  | 1330 | 13374 | Fri | 334 334 334 1 06982 00301 62391 ... 33578 20028 50511       | MFSK-20/10Bd | (AB)   |
| <b>XPA1</b> | 6-2  | 1350 | 11474 | Fri | 334 334 334 1 06982 00301 62391 ... 33578 20028 50511       | MFSK-20/10Bd | (AB)   |
| <b>XPA1</b> | 11-2 | 1310 | 14374 | Wed | 334 334 334 1 00271 00239 21061 ... 53345 32972 12951 77770 | MFSK-20/10Bd | (AB)   |
| <b>XPA1</b> | 11-2 | 1330 | 13374 | Wed | 334 334 334 1 00271 00239 21061 ... 53345 32972 12951 77770 | MFSK-20/10Bd | (AB)   |
| <b>XPA1</b> | 11-2 | 1350 | 11474 | Wed | 334 334 334 1 00271 00239 21061 ... 53345 32972 12951 77770 | MFSK-20/10Bd | (AB)   |
| <b>XPA1</b> | 13-2 | 1310 | 14374 | Fri | 334 334 334 1 00271 00239 21061 ... 53345 32972 12951 77770 | MFSK-20/10Bd | (AB)   |
| <b>XPA1</b> | 13-2 | 1330 | 13374 | Fri | 334 334 334 1 00271 00239 21061 ... 53345 32972 12951 77770 | MFSK-20/10Bd | (AB)   |
| <b>XPA1</b> | 13-2 | 1350 | 11474 | Fri | 334 334 334 1 00271 00239 21061 ... 53345 32972 12951 77770 | MFSK-20/10Bd | (AB)   |
| <b>XPA1</b> | 18-2 | 1310 | 14374 | Wed | 334 334 334 1 00271 00239 21061 ... 53345 32972 12951 77770 | MFSK-20/10Bd | (AB)   |
| <b>XPA1</b> | 18-2 | 1330 | 13374 | Wed | 334 334 334 1 00271 00239 21061 ... 53345 32972 12951 77770 | MFSK-20/10Bd | (AB)   |
| <b>XPA1</b> | 18-2 | 1350 | 11474 | Wed | 334 334 334 1 00271 00239 21061 ... 53345 32972 12951 77770 | MFSK-20/10Bd | (AB)   |
| <b>XPA1</b> | 20-2 | 1310 | 14374 | Fri | 334 334 334 1 00271 00239 21061 ... 53345 32972 12951 77770 | MFSK-20/10Bd | (AB)   |
| <b>XPA1</b> | 20-2 | 1330 | 13374 | Fri | 334 334 334 1 00271 00239 21061 ... 53345 32972 12951 77770 | MFSK-20/10Bd | (AB)   |
| <b>XPA1</b> | 20-2 | 1350 | 11474 | Fri | 334 334 334 1 00271 00239 21061 ... 53345 32972 12951 77770 | MFSK-20/10Bd | (AB)   |
| <b>XPA1</b> | 25-2 | 1310 | 14374 | Wed | 334 334 334 1 07196 00445 73400 ... 00247 08489 22335       | MFSK-20/10Bd | (AB)   |
| <b>XPA1</b> | 25-2 | 1330 | 13374 | Wed | 334 334 334 1 07196 00445 73400 ... 00247 08489 22335       | MFSK-20/10Bd | (AB)   |
| <b>XPA1</b> | 25-2 | 1350 | 11474 | Wed | 334 334 334 1 07196 00445 73400 ... 00247 08489 22335       | MFSK-20/10Bd | (AB)   |
| <b>XPA1</b> | 27-2 | 1310 | 14374 | Fri | 334 334 334 1 07196 00445 73400 ... 00247 08489 22335       | MFSK-20/10Bd | (AB)   |
| <b>XPA1</b> | 27-2 | 1330 | 13374 | Fri | 334 334 334 1 07196 00445 73400 ... 00247 08489 22335       | MFSK-20/10Bd | (AB)   |
| <b>XPA1</b> | 27-2 | 1350 | 11474 | Fri | 334 334 334 1 07196 00445 73400 ... 00247 08489 22335       | MFSK-20/10Bd | (AB)   |
| <b>XPA2</b> | 2-2  | 0800 | 13387 | Mon | 07805 00001 00000 37657                                     | MFSK-16/20Bd | (AB)   |
| <b>XPA2</b> | 2-2  | 0820 | 13887 | Mon | 07805 00001 00000 37657                                     | MFSK-16/20Bd | (AB)   |
| <b>XPA2</b> | 2-2  | 0840 | 14787 | Mon | 07805 00001 00000 37657                                     | MFSK-16/20Bd | (AB)   |
| <b>XPA2</b> | 2-2  | 0910 | 19297 | Mon | 05155 00001 00000 34262                                     | MFSK-16/20Bd | (AB)   |
| <b>XPA2</b> | 2-2  | 0930 | 18586 | Mon | 05155 00001 00000 34262                                     | MFSK-16/20Bd | (AB)   |
| <b>XPA2</b> | 2-2  | 0950 | 17473 | Mon | 05155 00001 00000 34262                                     | MFSK-16/20Bd | (AB)   |
| <b>XPA2</b> | 2-2  | 1600 | 11461 | Mon | 09225 00001 00000 34663                                     | MFSK-16/20Bd | (AB)   |
| <b>XPA2</b> | 2-2  | 1620 | 10261 | Mon | 09225 00001 00000 34663                                     | MFSK-16/20Bd | (AB)   |
| <b>XPA2</b> | 2-2  | 1640 | 9161  | Mon | 09225 00001 00000 34663                                     | MFSK-16/20Bd | (AB)   |
| <b>XPA2</b> | 3-2  | 1100 | 12147 | Tue | 01680 00001 00000 10140                                     | MFSK-16/20Bd | (AB)   |
| <b>XPA2</b> | 3-2  | 1120 | 10347 | Tue | 01680 00001 00000 10140                                     | MFSK-16/20Bd | (AB)   |
| <b>XPA2</b> | 3-2  | 1140 | 9247  | Tue | 01680 00001 00000 10140                                     | MFSK-16/20Bd | (AB)   |
| <b>XPA2</b> | 3-2  | 1700 | 13417 | Tue | 06412 00001 00000 34257                                     | MFSK-16/20Bd | (AB)   |



|      |     |      |       |     |                                         |              |      |
|------|-----|------|-------|-----|-----------------------------------------|--------------|------|
| XPA2 | 3-2 | 1720 | 12195 | Tue | 06412 00001 00000 34257                 | MFSK-16/20Bd | (AB) |
| XPA2 | 3-2 | 1740 | 11574 | Tue | 06412 00001 00000 34257                 | MFSK-16/20Bd | (AB) |
| XPA2 | 4-2 | 0800 | 13387 | Wed | 06047 00001 00000 34662                 | MFSK-16/20Bd | (AB) |
| XPA2 | 4-2 | 0820 | 13887 | Wed | 06047 00001 00000 34662                 | MFSK-16/20Bd | (AB) |
| XPA2 | 4-2 | 0840 | 14787 | Wed | 06047 00001 00000 34662                 | MFSK-16/20Bd | (AB) |
| XPA2 | 4-2 | 0910 | 19297 | Wed | 06796 00001 00000 37667                 | MFSK-16/20Bd | (AB) |
| XPA2 | 4-2 | 0930 | 18586 | Wed | 06796 00001 00000 37667                 | MFSK-16/20Bd | (AB) |
| XPA2 | 4-2 | 0950 | 17473 | Wed | 06796 00001 00000 37667                 | MFSK-16/20Bd | (AB) |
| XPA2 | 4-2 | 1100 | 13967 | Wed | 00793 00089 96660 ... 54512 10634 75250 | MFSK-16/20Bd | (AB) |
| XPA2 | 4-2 | 1120 | 13367 | Wed | 00793 00089 96660 ... 54512 10634 75250 | MFSK-16/20Bd | (AB) |
| XPA2 | 4-2 | 1140 | 11567 | Wed | 00793 00089 96660 ... 54512 10634 75250 | MFSK-16/20Bd | (AB) |
| XPA2 | 4-2 | 1200 | 14956 | Wed | 00972 00103 79910 ... 44618 18844 33375 | MFSK-16/20Bd | (AB) |
| XPA2 | 4-2 | 1220 | 16356 | Wed | 00972 00103 79910 ... 44618 18844 33375 | MFSK-16/20Bd | (AB) |
| XPA2 | 4-2 | 1240 | 17456 | Wed | 00972 00103 79910 ... 44618 18844 33375 | MFSK-16/20Bd | (AB) |
| XPA2 | 5-2 | 0900 | 19325 | Thu | 00902 00068 85168 ... 18189 09619 60044 | MFSK-16/20Bd | (AB) |
| XPA2 | 5-2 | 0920 | 18179 | Thu | 00902 00068 85168 ... 18189 09619 60044 | MFSK-16/20Bd | (AB) |
| XPA2 | 5-2 | 0940 | 17451 | Thu | 00902 00068 85168 ... 18189 09619 60044 | MFSK-16/20Bd | (AB) |
| XPA2 | 5-2 | 1100 | 13967 | Thu | Off after 31sec                         | MFSK-16/20Bd | (AB) |
| XPA2 | 5-2 | 1120 | 13367 | Thu | 00793 00089 96660 ... 54512 10634 75250 | MFSK-16/20Bd | (AB) |
| XPA2 | 5-2 | 1140 | 11567 | Thu | 00793 00089 96660 ... 54512 10634 75250 | MFSK-16/20Bd | (AB) |
| XPA2 | 5-2 | 1700 | 13417 | Thu | 04359 00001 00000 37261                 | MFSK-16/20Bd | (AB) |
| XPA2 | 5-2 | 1720 | 12195 | Thu | 04359 00001 00000 37261                 | MFSK-16/20Bd | (AB) |
| XPA2 | 5-2 | 1740 | 11574 | Thu | 04359 00001 00000 37261                 | MFSK-16/20Bd | (AB) |
| XPA2 | 6-2 | 1100 | 12147 | Fri | 02691 00001 00000 10140                 | MFSK-16/20Bd | (AB) |
| XPA2 | 6-2 | 1120 | 10347 | Fri | 02691 00001 00000 10140                 | MFSK-16/20Bd | (AB) |
| XPA2 | 6-2 | 1140 | 9247  | Fri | 02691 00001 00000 10140                 | MFSK-16/20Bd | (AB) |
| XPA2 | 6-2 | 1200 | 14956 | Fri | 00972 00103 79910 ... 44618 18844 33375 | MFSK-16/20Bd | (AB) |
| XPA2 | 6-2 | 1220 | 16356 | Fri | 00972 00103 79910 ... 44618 18844 33375 | MFSK-16/20Bd | (AB) |
| XPA2 | 6-2 | 1240 | 17456 | Fri | 00972 00103 79910 ... 44618 18844 33375 | MFSK-16/20Bd | (AB) |
| XPA2 | 7-2 | 0900 | 19325 | Sat | 00902 00068 85168 ... 18189 09619 60044 | MFSK-16/20Bd | (AB) |
| XPA2 | 7-2 | 0920 | 18179 | Sat | 00902 00068 85168 ... 18189 09619 60044 | MFSK-16/20Bd | (AB) |
| XPA2 | 7-2 | 0940 | 17451 | Sat | 00902 00068 85168 ... 18189 09619 60044 | MFSK-16/20Bd | (AB) |
| XPA2 | 7-2 | 1600 | 11461 | Sat | 02425 00001 00000 35654                 | MFSK-16/20Bd | (AB) |
| XPA2 | 7-2 | 1620 | 10261 | Sat | 02425 00001 00000 35654                 | MFSK-16/20Bd | (AB) |
| XPA2 | 7-2 | 1640 | 9161  | Sat | 02425 00001 00000 35654                 | MFSK-16/20Bd | (AB) |
| XPA2 | 9-2 | 0800 | 13387 | Mon | 03272 00126 82156 ... 69421 98581 72016 | MFSK-16/20Bd | (AB) |
| XPA2 | 9-2 | 0820 | 13887 | Mon | 03272 00126 82156 ... 69421 98581 72016 | MFSK-16/20Bd | (AB) |
| XPA2 | 9-2 | 0840 | 14787 | Mon | 03272 00126 82156 ... 69421 98581 72016 | MFSK-16/20Bd | (AB) |
| XPA2 | 9-2 | 0910 | 19297 | Mon | 03301 00001 00000 33253                 | MFSK-16/20Bd | (AB) |
| XPA2 | 9-2 | 0930 | 18586 | Mon | 03301 00001 00000 33253                 | MFSK-16/20Bd | (AB) |
| XPA2 | 9-2 | 0950 | 17473 | Mon | 03301 00001 00000 33253                 | MFSK-16/20Bd | (AB) |
| XPA2 | 9-2 | 1600 | 11461 | Mon | 04838 00194 02182 ... 07863 60736 41670 | MFSK-16/20Bd | (AB) |

|      |      |      |       |     |                                         |              |         |
|------|------|------|-------|-----|-----------------------------------------|--------------|---------|
| XPA2 | 9-2  | 1620 | 10261 | Mon | 04838 00194 02182 ... 07863 60736 41670 | MFSK-16/20Bd | (AB)    |
| XPA2 | 9-2  | 1640 | 9161  | Mon | 04838 00194 02182 ... 07863 60736 41670 | MFSK-16/20Bd | (AB)    |
| XPA2 | 10-2 | 1100 | 12147 | Tue | 01492 00001 00000 10140                 | MFSK-16/20Bd | (AB)    |
| XPA2 | 10-2 | 1120 | 10347 | Tue | 01492 00001 00000 10140                 | MFSK-16/20Bd | (AB)    |
| XPA2 | 10-2 | 1140 | 9247  | Tue | 01492 00001 00000 10140                 | MFSK-16/20Bd | (AB)    |
| XPA2 | 10-2 | 1700 | 13417 | Tue | 07839 00275 21959 ... 03319 08629 21562 | MFSK-16/20Bd | (AB)    |
| XPA2 | 10-2 | 1720 | 12195 | Tue | 07839 00275 21959 ... 03319 08629 21562 | MFSK-16/20Bd | (AB)    |
| XPA2 | 10-2 | 1740 | 11574 | Tue | 07839 00275 21959 ... 03319 08629 21562 | MFSK-16/20Bd | (AB)    |
| XPA2 | 11-2 | 0800 | 13387 | Wed | 03272 00126 82156 ... 69421 98581 72016 | MFSK-16/20Bd | (AB)    |
| XPA2 | 11-2 | 0820 | 13887 | Wed | 03272 00126 82156 ... 69421 98581 72016 | MFSK-16/20Bd | (AB)    |
| XPA2 | 11-2 | 0840 | 14787 | Wed | 03272 00126 82156 ... 69421 98581 72016 | MFSK-16/20Bd | (AB)    |
| XPA2 | 11-2 | 0910 | 19297 | Wed | 04928 00001 00000 41656                 | MFSK-16/20Bd | (AB)    |
| XPA2 | 11-2 | 0930 | 18586 | Wed | 04928 00001 00000 41656                 | MFSK-16/20Bd | (AB)    |
| XPA2 | 11-2 | 0950 | 17473 | Wed | 04928 00001 00000 41656                 | MFSK-16/20Bd | (AB)    |
| XPA2 | 11-2 | 1100 | 13967 | Wed | 09372 00001 00000 33670                 | MFSK-16/20Bd | (AB)    |
| XPA2 | 11-2 | 1120 | 13367 | Wed | 09372 00001 00000 33670                 | MFSK-16/20Bd | (AB)    |
| XPA2 | 11-2 | 1140 | 11567 | Wed | 09372 00001 00000 33670                 | MFSK-16/20Bd | (AB)    |
| XPA2 | 11-2 | 1200 | 14956 | Wed | 08544 00001 00000 35664                 | MFSK-16/20Bd | (AB)    |
| XPA2 | 11-2 | 1220 | 16356 | Wed | 08544 00001 00000 35664                 | MFSK-16/20Bd | (AB)    |
| XPA2 | 11-2 | 1240 | 17456 | Wed | 08544 00001 00000 35664                 | MFSK-16/20Bd | (AB)    |
| XPA2 | 12-2 | 0900 | 19325 | Thu | 00858 00145 03878 ... 42074 88847 47174 | MFSK-16/20Bd | (AB)    |
| XPA2 | 12-2 | 0920 | 18179 | Thu | 00858 00145 03878 ... 42074 88847 47174 | MFSK-16/20Bd | (AB)    |
| XPA2 | 12-2 | 0940 | 17451 | Thu | 00858 00145 03878 ... 42074 88847 47174 | MFSK-16/20Bd | (AB)    |
| XPA2 | 12-2 | 1100 | 13967 | Thu | 06716 00001 00000 37657                 | MFSK-16/20Bd | (AB)    |
| XPA2 | 12-2 | 1120 | 13367 | Thu | 06716 00001 00000 37657                 | MFSK-16/20Bd | (AB)    |
| XPA2 | 12-2 | 1140 | 11567 | Thu | 06716 00001 00000 37657                 | MFSK-16/20Bd | (AB)    |
| XPA2 | 12-2 | 1700 | 13417 | Thu | 07839 00275 21959 ... 03319 08629 21562 | MFSK-16/20Bd | (AB)    |
| XPA2 | 12-2 | 1720 | 12195 | Thu | 07839 00275 21959 ... 03319 08629 21562 | MFSK-16/20Bd | (AB)    |
| XPA2 | 12-2 | 1740 | 11574 | Thu | 07839 00275 21959 ... 03319 08629 21562 | MFSK-16/20Bd | (AB)    |
| XPA2 | 13-2 | 1100 | 12147 | Fri | 07367 00001 00000 10140                 | MFSK-16/20Bd | (AB)    |
| XPA2 | 13-2 | 1120 | 10347 | Fri | 07367 00001 00000 10140                 | MFSK-16/20Bd | (AB)    |
| XPA2 | 13-2 | 1140 | 9247  | Fri | 07367 00001 00000 10140                 | MFSK-16/20Bd | (AB)    |
| XPA2 | 13-2 | 1200 | 14956 | Fri | 05732 00001 00000 35660                 | MFSK-16/20Bd | (AB)    |
| XPA2 | 13-2 | 1220 | 16356 | Fri | 05732 00001 00000 35660                 | MFSK-16/20Bd | (AB)    |
| XPA2 | 13-2 | 1240 | 17456 | Fri | 05732 00001 00000 35660                 | MFSK-16/20Bd | (AB)    |
| XPA2 | 14-2 | 0900 | 19325 | Sat | 00858 00145 03878 ... 42074 88847 47174 | MFSK-16/20Bd | (AB)    |
| XPA2 | 14-2 | 0920 | 18179 | Sat | 00858 00145 03878 ... 42074 88847 47174 | MFSK-16/20Bd | (AB/EW) |
| XPA2 | 14-2 | 0940 | 17451 | Sat | 00858 00145 03878 ... 42074 88847 47174 | MFSK-16/20Bd | (AB/EW) |
| XPA2 | 14-2 | 1600 | 11461 | Sat | 04838 00194 02182 ... 07863 60736 41670 | MFSK-16/20Bd | (AB)    |
| XPA2 | 14-2 | 1620 | 10261 | Sat | 04838 00194 02182 ... 07863 60736 41670 | MFSK-16/20Bd | (AB)    |
| XPA2 | 14-2 | 1640 | 9161  | Sat | 04838 00194 02182 ... 07863 60736 41670 | MFSK-16/20Bd | (AB)    |
| XPA2 | 16-2 | 0800 | 13387 | Mon | 03272 00126 82156 ... 69421 98581 72016 | MFSK-16/20Bd | (AB)    |

|      |      |      |       |     |                                         |              |      |
|------|------|------|-------|-----|-----------------------------------------|--------------|------|
| XPA2 | 16-2 | 0820 | 13887 | Mon | 03272 00126 82156 ... 69421 98581 72016 | MFSK-16/20Bd | (AB) |
| XPA2 | 16-2 | 0840 | 14787 | Mon | 03272 00126 82156 ... 69421 98581 72016 | MFSK-16/20Bd | (AB) |
| XPA2 | 16-2 | 0910 | 19297 | Mon | 06509 00110 98264 ... 77115 47807 26270 | MFSK-16/20Bd | (AB) |
| XPA2 | 16-2 | 0930 | 18586 | Mon | 06509 00110 98264 ... 77115 47807 26270 | MFSK-16/20Bd | (AB) |
| XPA2 | 16-2 | 0950 | 17473 | Mon | 06509 00110 98264 ... 77115 47807 26270 | MFSK-16/20Bd | (AB) |
| XPA2 | 16-2 | 1600 | 11461 | Mon | 02852 00001 00000 36257                 | MFSK-16/20Bd | (AB) |
| XPA2 | 16-2 | 1620 | 10261 | Mon | 02852 00001 00000 36257                 | MFSK-16/20Bd | (AB) |
| XPA2 | 16-2 | 1640 | 9161  | Mon | 02852 00001 00000 36257                 | MFSK-16/20Bd | (AB) |
| XPA2 | 17-2 | 1100 | 12147 | Tue | 03646 00098 25093 ... 51361 32629 62157 | MFSK-16/20Bd | (AB) |
| XPA2 | 17-2 | 1120 | 10347 | Tue | 03646 00098 25093 ... 51361 32629 62157 | MFSK-16/20Bd | (AB) |
| XPA2 | 17-2 | 1140 | 9247  | Tue | 03646 00098 25093 ... 51361 32629 62157 | MFSK-16/20Bd | (AB) |
| XPA2 | 17-2 | 1700 | 13417 | Tue | 05423 00001 00000 34657                 | MFSK-16/20Bd | (AB) |
| XPA2 | 17-2 | 1720 | 12195 | Tue | 05423 00001 00000 34657                 | MFSK-16/20Bd | (AB) |
| XPA2 | 17-2 | 1740 | 11574 | Tue | 05423 00001 00000 34657                 | MFSK-16/20Bd | (AB) |
| XPA2 | 18-2 | 0800 | 13387 | Wed | 03272 00126 82156 ... 69421 98581 72016 | MFSK-16/20Bd | (AB) |
| XPA2 | 18-2 | 0820 | 13887 | Wed | 03272 00126 82156 ... 69421 98581 72016 | MFSK-16/20Bd | (AB) |
| XPA2 | 18-2 | 0840 | 14787 | Wed | 03272 00126 82156 ... 69421 98581 72016 | MFSK-16/20Bd | (AB) |
| XPA2 | 18-2 | 0910 | 19297 | Wed | 06509 00110 98264 ... 77115 47807 26270 | MFSK-16/20Bd | (AB) |
| XPA2 | 18-2 | 0930 | 18586 | Wed | 06509 00110 98264 ... 77115 47807 26270 | MFSK-16/20Bd | (AB) |
| XPA2 | 18-2 | 0950 | 17473 | Wed | 06509 00110 98264 ... 77115 47807 26270 | MFSK-16/20Bd | (AB) |
| XPA2 | 18-2 | 1100 | 13967 | Wed | 00153 00114 82307 ... 79039 45273 15535 | MFSK-16/20Bd | (AB) |
| XPA2 | 18-2 | 1120 | 13367 | Wed | 00153 00114 82307 ... 79039 45273 15535 | MFSK-16/20Bd | (AB) |
| XPA2 | 18-2 | 1140 | 11567 | Wed | 00153 00114 82307 ... 79039 45273 15535 | MFSK-16/20Bd | (AB) |
| XPA2 | 18-2 | 1200 | 14956 | Wed | 03627 00239 18908 ... 49067 49017 36453 | MFSK-16/20Bd | (AB) |
| XPA2 | 18-2 | 1220 | 16356 | Wed | 03627 00239 18908 ... 49067 49017 36453 | MFSK-16/20Bd | (AB) |
| XPA2 | 18-2 | 1240 | 17456 | Wed | 03627 00239 18908 ... 49067 49017 36453 | MFSK-16/20Bd | (AB) |
| XPA2 | 19-2 | 0900 | 19325 | Thu | 00643 00112 06849 ... 80502 66875 21405 | MFSK-16/20Bd | (AB) |
| XPA2 | 19-2 | 0920 | 18179 | Thu | 00643 00112 06849 ... 80502 66875 21405 | MFSK-16/20Bd | (AB) |
| XPA2 | 19-2 | 0940 | 17451 | Thu | 00643 00112 06849 ... 80502 66875 21405 | MFSK-16/20Bd | (AB) |
| XPA2 | 19-2 | 1100 | 13967 | Thu | 00153 00114 82307 ... 79039 45273 15535 | MFSK-16/20Bd | (AB) |
| XPA2 | 19-2 | 1120 | 13367 | Thu | 00153 00114 82307 ... 79039 45273 15535 | MFSK-16/20Bd | (AB) |
| XPA2 | 19-2 | 1140 | 11567 | Thu | 00153 00114 82307 ... 79039 45273 15535 | MFSK-16/20Bd | (AB) |
| XPA2 | 19-2 | 1700 | 13417 | Thu | 01082 00001 00000 32261                 | MFSK-16/20Bd | (AB) |
| XPA2 | 19-2 | 1720 | 12195 | Thu | 01082 00001 00000 32261                 | MFSK-16/20Bd | (AB) |
| XPA2 | 19-2 | 1740 | 11574 | Thu | 01082 00001 00000 32261                 | MFSK-16/20Bd | (AB) |
| XPA2 | 20-2 | 1100 | 12147 | Fri | 03646 00098 25093 ... 51361 32629 62157 | MFSK-16/20Bd | (AB) |
| XPA2 | 20-2 | 1120 | 10347 | Fri | 03646 00098 25093 ... 51361 32629 62157 | MFSK-16/20Bd | (AB) |
| XPA2 | 20-2 | 1140 | 9247  | Fri | 03646 00098 25093 ... 51361 32629 62157 | MFSK-16/20Bd | (AB) |
| XPA2 | 20-2 | 1200 | 14956 | Fri | 03627 00239 18908 ... 49067 49017 36453 | MFSK-16/20Bd | (AB) |
| XPA2 | 20-2 | 1220 | 16356 | Fri | 03627 00239 18908 ... 49067 49017 36453 | MFSK-16/20Bd | (AB) |
| XPA2 | 20-2 | 1240 | 17456 | Fri | 03627 00239 18908 ... 49067 49017 36453 | MFSK-16/20Bd | (AB) |
| XPA2 | 21-2 | 0900 | 19325 | Sat | 00643 00112 06849 ... 80502 66875 21405 | MFSK-16/20Bd | (AB) |

|      |      |      |       |     |                                         |              |            |
|------|------|------|-------|-----|-----------------------------------------|--------------|------------|
| XPA2 | 21-2 | 0920 | 18179 | Sat | 00643 00112 06849 ... 80502 66875 21405 | MFSK-16/20Bd | (AB)       |
| XPA2 | 21-2 | 0940 | 17451 | Sat | 00643 00112 06849 ... 80502 66875 21405 | MFSK-16/20Bd | (AB)       |
| XPA2 | 21-2 | 1600 | 11461 | Sat | 05995 00001 00000 40266                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 21-2 | 1620 | 10261 | Sat | 05995 00001 00000 40266                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 21-2 | 1640 | 9161  | Sat | 05995 00001 00000 40266                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 23-2 | 0800 | 13387 | Mon | 06672 00001 00000 35265                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 23-2 | 0820 | 13887 | Mon | 06672 00001 00000 35265                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 23-2 | 0840 | 14787 | Mon | 06672 00001 00000 35265                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 23-2 | 0910 | 19297 | Mon | 07103 00001 00000 10140                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 23-2 | 0930 | 18586 | Mon | 07103 00001 00000 10140                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 23-2 | 0950 | 17473 | Mon | 07103 00001 00000 10140                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 23-2 | 1600 | 11461 | Mon | 00841 00201 59616 ... 33370 70754 07257 | MFSK-16/20Bd | (AB)       |
| XPA2 | 23-2 | 1620 | 10261 | Mon | 00841 00201 59616 ... 33370 70754 07257 | MFSK-16/20Bd | (AB)       |
| XPA2 | 23-2 | 1640 | 9161  | Mon | 00841 00201 59616 ... 33370 70754 07257 | MFSK-16/20Bd | (AB)       |
| XPA2 | 24-2 | 1100 | 12147 | Tue | 05176 00180 03698 ... 66453 67511 71352 | MFSK-16/20Bd | (AB)       |
| XPA2 | 24-2 | 1120 | 10347 | Tue | 05176 00180 03698 ... 66453 67511 71352 | MFSK-16/20Bd | (AB)       |
| XPA2 | 24-2 | 1140 | 9247  | Tue | 05176 00180 03698 ... 66453 67511 71352 | MFSK-16/20Bd | (AB)       |
| XPA2 | 24-2 | 1700 | 13417 | Tue | 00550 00212 37167 ... 18627 15285 03476 | MFSK-16/20Bd | (AB)       |
| XPA2 | 24-2 | 1720 | 12195 | Tue | 00550 00212 37167 ... 18627 15285 03476 | MFSK-16/20Bd | (AB)       |
| XPA2 | 24-2 | 1740 | 11574 | Tue | 00550 00212 37167 ... 18627 15285 03476 | MFSK-16/20Bd | (AB)       |
| XPA2 | 25-2 | 0800 | 13387 | Wed | 09940 00001 00000 35665                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 25-2 | 0820 | 13887 | Wed | 09940 00001 00000 35665                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 25-2 | 0840 | 14787 | Wed | 09940 00001 00000 35665                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 25-2 | 0910 | 19297 | Wed | 06219 00001 00000 10140                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 25-2 | 0930 | 18586 | Wed | 06219 00001 00000 10140                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 25-2 | 0950 | 17473 | Wed | 06219 00001 00000 10140                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 25-2 | 1100 | 13967 | Wed | 02550 00001 00000 10140                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 25-2 | 1120 | 13367 | Wed | 02550 00001 00000 10140                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 25-2 | 1140 | 11567 | Wed | 02550 00001 00000 10140                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 25-2 | 1200 | 14956 | Wed | 00855 00083 81765 ... 06575 89682 62266 | MFSK-16/20Bd | (AB)       |
| XPA2 | 25-2 | 1220 | 16356 | Wed | 00855 00083 81765 ... 06575 89682 62266 | MFSK-16/20Bd | (AB)       |
| XPA2 | 25-2 | 1240 | 17456 | Wed | 00855 00083 81765 ... 06575 89682 62266 | MFSK-16/20Bd | (AB)       |
| XPA2 | 26-2 | 0900 | 19325 | Thu | 02933 00001 00000 10140                 | MFSK-16/20Bd | (AB/Hiram) |
| XPA2 | 26-2 | 0920 | 18179 | Thu | 02933 00001 00000 10140                 | MFSK-16/20Bd | (AB/Hiram) |
| XPA2 | 26-2 | 0940 | 17451 | Thu | 02933 00001 00000 10140                 | MFSK-16/20Bd | (AB/Hiram) |
| XPA2 | 26-2 | 1100 | 13967 | Thu | 09315 00001 00000 10040                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 26-2 | 1120 | 13367 | Thu | 09315 00001 00000 10040                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 26-2 | 1140 | 11567 | Thu | 09315 00001 00000 10040                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 26-2 | 1700 | 13417 | Thu | 00550 00212 37167 ... 18627 15285 03476 | MFSK-16/20Bd | (AB)       |
| XPA2 | 26-2 | 1720 | 12195 | Thu | 00550 00212 37167 ... 18627 15285 03476 | MFSK-16/20Bd | (AB)       |
| XPA2 | 26-2 | 1740 | 11574 | Thu | 00550 00212 37167 ... 18627 15285 03476 | MFSK-16/20Bd | (AB)       |
| XPA2 | 27-2 | 1100 | 12147 | Fri | 05176 00180 03698 ... 66453 67511 71352 | MFSK-16/20Bd | (AB)       |

|             |      |      |       |     |                                         |              |            |
|-------------|------|------|-------|-----|-----------------------------------------|--------------|------------|
| <b>XPA2</b> | 27-2 | 1120 | 10347 | Fri | 05176 00180 03698 ... 66453 67511 71352 | MFSK-16/20Bd | (AB)       |
| <b>XPA2</b> | 27-2 | 1140 | 9247  | Fri | 05176 00180 03698 ... 66453 67511 71352 | MFSK-16/20Bd | (AB)       |
| <b>XPA2</b> | 27-2 | 1200 | 14956 | Fri | 00855 00083 81765 ... 06575 89682 62266 | MFSK-16/20Bd | (AB)       |
| <b>XPA2</b> | 27-2 | 1220 | 16356 | Fri | 00855 00083 81765 ... 06575 89682 62266 | MFSK-16/20Bd | (AB)       |
| <b>XPA2</b> | 27-2 | 1240 | 17456 | Fri | 00855 00083 81765 ... 06575 89682 62266 | MFSK-16/20Bd | (AB)       |
| <b>XPA2</b> | 28-2 | 0900 | 19325 | Sat | 04717 00001 00000 10140                 | MFSK-16/20Bd | (AB/Hiram) |
| <b>XPA2</b> | 28-2 | 0920 | 18179 | Sat | 04717 00001 00000 10140                 | MFSK-16/20Bd | (AB/Hiram) |
| <b>XPA2</b> | 28-2 | 0940 | 17451 | Sat | 04717 00001 00000 10140                 | MFSK-16/20Bd | (AB/Hiram) |
| <b>XPA2</b> | 28-2 | 1600 | 11461 | Sat | 00841 00201 59616 ... 33370 70754 07257 | MFSK-16/20Bd | (AB)       |
| <b>XPA2</b> | 28-2 | 1620 | 10261 | Sat | 00841 00201 59616 ... 33370 70754 07257 | MFSK-16/20Bd | (AB)       |
| <b>XPA2</b> | 28-2 | 1640 | 9161  | Sat | 00841 00201 59616 ... 33370 70754 07257 | MFSK-16/20Bd | (AB)       |
| <b>XPB1</b> | 2-2  | 0600 | 19461 | Mon | Russian intel.                          | MFSK-16      | (AB)       |
| <b>XPB1</b> | 2-2  | 0610 | 19261 | Mon | Russian intel.                          | MFSK-16      | (AB)       |
| <b>XPB1</b> | 2-2  | 0620 | 18261 | Mon | Russian intel.                          | MFSK-16      | (AB)       |
| <b>XPB1</b> | 2-2  | 0630 | 16261 | Mon | Russian intel.                          | MFSK-16      | (AB)       |
| <b>XPB1</b> | 2-2  | 0640 | 15861 | Mon | Russian intel.                          | MFSK-16      | (AB)       |
| <b>XPB1</b> | 2-2  | 0650 | 14961 | Mon | Russian intel.                          | MFSK-16      | (AB)       |
| <b>XPB1</b> | 3-2  | 0600 | 19461 | Tue | Russian intel.                          | MFSK-16      | (AB)       |
| <b>XPB1</b> | 3-2  | 0610 | 19261 | Tue | Russian intel.                          | MFSK-16      | (AB)       |
| <b>XPB1</b> | 3-2  | 0620 | 18261 | Tue | Russian intel.                          | MFSK-16      | (AB)       |
| <b>XPB1</b> | 3-2  | 0630 | 16261 | Tue | Russian intel.                          | MFSK-16      | (AB)       |
| <b>XPB1</b> | 3-2  | 0640 | 15861 | Tue | Russian intel.                          | MFSK-16      | (AB)       |
| <b>XPB1</b> | 3-2  | 0650 | 14961 | Tue | Russian intel.                          | MFSK-16      | (AB)       |
| <b>XPB1</b> | 3-2  | 1300 | 20035 | Tue | Russian intel.                          | MFSK-16      | (AB)       |
| <b>XPB1</b> | 3-2  | 1310 | 19235 | Tue | Russian intel.                          | MFSK-16      | (AB/RL)    |
| <b>XPB1</b> | 3-2  | 1320 | 18335 | Tue | Russian intel.                          | MFSK-16      | (AB/RL)    |
| <b>XPB1</b> | 3-2  | 1330 | 17435 | Tue | Russian intel.                          | MFSK-16      | (AB/RL)    |
| <b>XPB1</b> | 3-2  | 1340 | 16235 | Tue | Russian intel.                          | MFSK-16      | (AB)       |
| <b>XPB1</b> | 3-2  | 1350 | 15835 | Tue | Russian intel.                          | MFSK-16      | (AB)       |
| <b>XPB1</b> | 6-2  | 1300 | 20035 | Fri | Russian intel.                          | MFSK-16      | (AB/RL)    |
| <b>XPB1</b> | 6-2  | 1310 | 19235 | Fri | Russian intel.                          | MFSK-16      | (AB/RL)    |
| <b>XPB1</b> | 6-2  | 1320 | 18335 | Fri | Russian intel.                          | MFSK-16      | (AB)       |
| <b>XPB1</b> | 6-2  | 1330 | 17435 | Fri | Russian intel.                          | MFSK-16      | (AB)       |
| <b>XPB1</b> | 6-2  | 1340 | 16235 | Fri | Russian intel.                          | MFSK-16      | (AB)       |
| <b>XPB1</b> | 6-2  | 1350 | 15835 | Fri | Russian intel.                          | MFSK-16      | (AB)       |
| <b>XPB1</b> | 9-2  | 0600 | 19461 | Mon | Russian intel.                          | MFSK-16      | (AB)       |
| <b>XPB1</b> | 9-2  | 0610 | 19261 | Mon | Russian intel.                          | MFSK-16      | (AB)       |
| <b>XPB1</b> | 9-2  | 0620 | 18261 | Mon | Russian intel.                          | MFSK-16      | (AB)       |
| <b>XPB1</b> | 9-2  | 0630 | 16261 | Mon | Russian intel.                          | MFSK-16      | (AB)       |
| <b>XPB1</b> | 9-2  | 0640 | 15861 | Mon | Russian intel.                          | MFSK-16      | (AB)       |
| <b>XPB1</b> | 9-2  | 0650 | 14961 | Mon | Russian intel.                          | MFSK-16      | (AB)       |
| <b>XPB1</b> | 10-2 | 0600 | 19461 | Tue | Russian intel.                          | MFSK-16      | (AB)       |

|             |      |      |       |     |                |         |         |
|-------------|------|------|-------|-----|----------------|---------|---------|
| <b>XPB1</b> | 10-2 | 0610 | 19261 | Tue | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 10-2 | 0620 | 18261 | Tue | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 10-2 | 0630 | 16261 | Tue | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 10-2 | 0640 | 15861 | Tue | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 10-2 | 0650 | 14961 | Tue | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 10-2 | 1300 | 20035 | Tue | Russian intel. | MFSK-16 | (AB/RL) |
| <b>XPB1</b> | 10-2 | 1310 | 19235 | Tue | Russian intel. | MFSK-16 | (AB/RL) |
| <b>XPB1</b> | 10-2 | 1320 | 18335 | Tue | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 10-2 | 1330 | 17435 | Tue | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 10-2 | 1340 | 16235 | Tue | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 10-2 | 1350 | 15835 | Tue | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 13-2 | 1300 | 20035 | Fri | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 13-2 | 1310 | 19235 | Fri | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 13-2 | 1320 | 18335 | Fri | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 13-2 | 1330 | 17435 | Fri | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 13-2 | 1340 | 16235 | Fri | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 13-2 | 1350 | 15835 | Fri | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 16-2 | 0600 | 19521 | Mon | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 16-2 | 0610 | 19121 | Mon | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 16-2 | 0620 | 18221 | Mon | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 16-2 | 0630 | 17421 | Mon | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 16-2 | 0640 | 16321 | Mon | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 16-2 | 0650 | 15821 | Mon | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 17-2 | 0600 | 19521 | Tue | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 17-2 | 0610 | 19121 | Tue | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 17-2 | 0620 | 18221 | Tue | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 17-2 | 0630 | 17421 | Tue | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 17-2 | 0640 | 16321 | Tue | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 17-2 | 0650 | 15821 | Tue | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 17-2 | 1300 | 20035 | Tue | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 17-2 | 1310 | 19235 | Tue | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 17-2 | 1320 | 18335 | Tue | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 17-2 | 1330 | 17435 | Tue | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 17-2 | 1340 | 16235 | Tue | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 17-2 | 1350 | 15835 | Tue | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 20-2 | 1300 | 20035 | Fri | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 20-2 | 1310 | 19235 | Fri | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 20-2 | 1320 | 18335 | Fri | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 20-2 | 1330 | 17435 | Fri | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 20-2 | 1340 | 16235 | Fri | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 20-2 | 1350 | 15835 | Fri | Russian intel. | MFSK-16 | (AB)    |
| <b>XPB1</b> | 23-2 | 0600 | 19521 | Mon | Russian intel. | MFSK-16 | (AB)    |



|             |      |      |        |     |                                               |             |            |
|-------------|------|------|--------|-----|-----------------------------------------------|-------------|------------|
| <b>XPB1</b> | 23-2 | 0610 | 19121  | Mon | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 23-2 | 0620 | 18221  | Mon | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 23-2 | 0630 | 17421  | Mon | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 23-2 | 0640 | 16321  | Mon | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 23-2 | 0650 | 15821  | Mon | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 24-2 | 0600 | 19521  | Tue | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 24-2 | 0610 | 19121  | Tue | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 24-2 | 0620 | 18221  | Tue | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 24-2 | 0630 | 17421  | Tue | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 24-2 | 0640 | 16321  | Tue | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 24-2 | 0650 | 15821  | Tue | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 24-2 | 1300 | 20035  | Tue | Russian intel.                                | MFSK-16     | (AB/Hiram) |
| <b>XPB1</b> | 24-2 | 1310 | 19235  | Tue | Russian intel.                                | MFSK-16     | (AB/Hiram) |
| <b>XPB1</b> | 24-2 | 1320 | 18335  | Tue | Russian intel.                                | MFSK-16     | (AB/Hiram) |
| <b>XPB1</b> | 24-2 | 1330 | 17435  | Tue | Russian intel.                                | MFSK-16     | (AB/Hiram) |
| <b>XPB1</b> | 24-2 | 1340 | 16235  | Tue | Russian intel.                                | MFSK-16     | (AB/Hiram) |
| <b>XPB1</b> | 24-2 | 1350 | 15835  | Tue | Russian intel.                                | MFSK-16     | (AB/Hiram) |
| <b>XPB1</b> | 26-2 | 0600 | 19521  | Thu | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 26-2 | 0610 | 19121  | Thu | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 26-2 | 0620 | 18221  | Thu | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 26-2 | 0630 | 17421  | Thu | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 26-2 | 0640 | 16321  | Thu | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 26-2 | 0650 | 15821  | Thu | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 27-2 | 0600 | 19521  | Fri | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 27-2 | 0610 | 19121  | Fri | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 27-2 | 0620 | 18221  | Fri | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 27-2 | 0630 | 17421  | Fri | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 27-2 | 0640 | 16321  | Fri | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 27-2 | 0650 | 15821  | Fri | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 27-2 | 1300 | 20035  | Fri | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 27-2 | 1310 | 19235  | Fri | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 27-2 | 1320 | 18335  | Fri | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 27-2 | 1330 | 17435  | Fri | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 27-2 | 1340 | 16235  | Fri | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XPB1</b> | 27-2 | 1350 | 15835  | Fri | Russian intel.                                | MFSK-16     | (AB)       |
| <b>XSL</b>  | 28-2 | 1819 | 4153   | Sat | Japanese Navy. Telemetry (a.k.a. Slotmachine) | QPSK 1500Bd | (AB-J)     |
| <b>XSL</b>  | 28-2 | 1819 | 4231.5 | Sat | Japanese Navy. Telemetry (a.k.a. Slotmachine) | QPSK 1500Bd | (AB-J)     |
| <b>XSL</b>  | 28-2 | 1819 | 4291   | Sat | Japanese Navy. Telemetry (a.k.a. Slotmachine) | QPSK 1500Bd | (AB-J)     |
| <b>XSL</b>  | 28-2 | 1819 | 6250   | Sat | Japanese Navy. Telemetry (a.k.a. Slotmachine) | QPSK 1500Bd | (AB-J)     |
| <b>XSL</b>  | 28-2 | 1819 | 6417   | Sat | Japanese Navy. Telemetry (a.k.a. Slotmachine) | QPSK 1500Bd | (AB-J)     |
| <b>XSL</b>  | 28-2 | 1819 | 6445   | Sat | Japanese Navy. Telemetry (a.k.a. Slotmachine) | QPSK 1500Bd | (AB-J)     |
| <b>XSL</b>  | 28-2 | 1819 | 8313   | Sat | Japanese Navy. Telemetry (a.k.a. Slotmachine) | QPSK 1500Bd | (AB-J)     |

|            |      |      |        |     |                                               |             |        |
|------------|------|------|--------|-----|-----------------------------------------------|-------------|--------|
| <b>XSL</b> | 28-2 | 1819 | 8588   | Sat | Japanese Navy. Telemetry (a.k.a. Slotmachine) | QPSK 1500Bd | (AB-J) |
| <b>XSL</b> | 28-2 | 1819 | 8703.5 | Sat | Japanese Navy. Telemetry (a.k.a. Slotmachine) | QPSK 1500Bd | (AB-J) |

### *Additional logs*

| <b>Code</b> | <b>Date</b> | <b>UTC</b> | <b>Freq</b> | <b>Day</b> | <b>Details</b>                                                                                                                  | <b>Mode</b>  | <b>Contributor</b> |
|-------------|-------------|------------|-------------|------------|---------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------|
| <b>E06</b>  | 20-2        | 0740       | 9356        | Fri        | 910 (R1m) [no further activity]                                                                                                 | USB          | (PY)               |
| <b>F06a</b> | 22-2        | 0850       | 5913        | Sun        | Text file _KI79993.001. Header: 11100 79993 _3423 22001 03019                                                                   | FSK 200/1000 | (PY)               |
| <b>F06a</b> | 22-2        | 0900       | 7992        | Sun        | Text file _KI79993.001. Header: 11100 79993 _3423 22001 03019                                                                   | FSK 200/1000 | (PY)               |
| <b>F06a</b> | 22-2        | 0910       | 10687       | Sun        | Text file _KI79993.001. Header: 11100 79993 _3423 22001 03019                                                                   | FSK 200/1000 | (PY)               |
| <b>M14</b>  | 13-1        | 0840       | 9463        | Tue        | Two series of fast beeps                                                                                                        | CW           | (PY)               |
| <b>M14</b>  | 13-1        | 0900       | 9463        | Tue        | 801 647 647 52 52 = = 61609 03404 19283 ... 17526 70371 80804 = = 647 647 52 52 00000                                           | CW           | (PY)               |
| <b>M14</b>  | 16-1        | 1240       | 10755       | Fri        | Two series of fast beeps                                                                                                        | CW           | (PY)               |
| <b>M14</b>  | 16-1        | 1300       | 10755       | Fri        | 975 126 126 53 53 = = 65159 91453 73986 ... 93181 30220 85443 = = 126 126 53 53 00000                                           | CW           | (PY)               |
| <b>M14</b>  | 29-1        | 0838       | 11073       | Thu        | Two series of fast beeps                                                                                                        | CW           | (PY)               |
| <b>M14</b>  | 29-1        | 0850       | 11073       | Thu        | 352 479 479 60 60 = = 77607 99204 63589 ... 62752 92028 89186 = = 479 479 60 60 00000 Several breaks and restarts               | CW           | (PY)               |
| <b>M14</b>  | 29-1        | 1152       | 9463        | Mon        | Two series of fast beeps                                                                                                        | CW           | (PY)               |
| <b>M14</b>  | 29-1        | 1210       | 9463        | Thu        | 801 362 362 54 54 = = 30168 66306 14962 ... 27498 14353 49845 = = 362 362 54 54 00000 Several breaks and restarts               | CW           | (PY)               |
| <b>M14</b>  | 29-1        | 1356       | 10755       | Thu        | Two series of fast beeps                                                                                                        | CW           | (PY)               |
| <b>M14</b>  | 29-1        | 1400       | 10755       | Thu        | 975 823 823 60 60 = = 37593 00278 40103 ... 35257 43882 41020 = = 823 823 60 60 00000 Restart                                   | CW           | (PY)               |
| <b>M14</b>  | 10-2        | 0835       | 11073       | Tue        | Slow beeps                                                                                                                      | CW           | (PY)               |
| <b>M14</b>  | 10-2        | 0842       | 11073       | Tue        | Two series of fast beeps                                                                                                        | CW           | (PY)               |
| <b>M14</b>  | 10-2        | 0900       | 11073       | Tue        | 352 194 194 60 60 = = 01484 18392 12594 ... 16681 01594 42838 = = 194 194 60 60 00000                                           | CW           | (PY)               |
| <b>S06</b>  | 26-1        | 1300       | 9300        | Mon        | 352 796 41 62555 44337 45434 39706 ... 97213 15464 76740 796 41 00000                                                           | USB          | (PY)               |
| <b>S06</b>  | 5-2         | 1200       | 9463        | Thu        | 801 967 52 29514 71178 35216 ... 11111 08329 97605 967 52 00000                                                                 | USB          | (PY)               |
| <b>S06</b>  | 5-2         | 1320       | 10755       | Thu        | 975 138 60 97613 74199 86455 ... 19558 49887 70928 138 60 00000                                                                 | USB          | (PY)               |
| <b>S06</b>  | 8-2         | 0830       | 11073       | Sun        | 352 817 60 43725 26921 03714 ... 33148 98991 00395 817 60 00000                                                                 | USB          | (PY)               |
| <b>S06g</b> | 8-2         | 1245       | 9463        | Sun        | 801 29481 256 34 61941 27167 92330 ... 34751 10055 86381 256 34 00000                                                           | USB          | (PY)               |
| <b>S06g</b> | 8-2         | 1340       | 10755       | Sun        | 975 19283 642 31 86825 22840 50365 ... 88923 22802 82400 642 31 00000                                                           | USB          | (PY)               |
| <b>S06g</b> | 9-2         | 0750       | 11073       | Mon        | 352 28417 789 40 84207 07184 23440 ... 32750 43356 41257 789 40 352 478 60 84763 43477 26766 ... 67754 71928 45912 478 60 00000 | USB          | (PY)               |
| <b>S06g</b> | 11-2        | 1020       | 9463        | Wed        | 801 57913 526 34 96977 96078 76386 ... 48863 34942 12879 526 34 00000                                                           | USB          | (PY)               |



## LIST OF ACTIVE STATIONS

### Prefixes

|      |                                                                                            |       |                                                  |
|------|--------------------------------------------------------------------------------------------|-------|--------------------------------------------------|
| E    | English language                                                                           | Q     | 4+4 QPSK mode                                    |
| F    | FSK (Frequency Shift Keying) modes                                                         | S     | Slavic languages                                 |
| G    | German language                                                                            | SK    | Various modes used by Cuba, incl. (B)PSK, WinDRM |
| HM   | Hybrid modes                                                                               | UM(C) | Unid Morse station (Chinese)                     |
| M(C) | Morse code (Chinese)                                                                       | V     | Voice broadcasts in other languages              |
| P    | PSK modes. QPSK (Quadrature Phase Shift Keying) and BPSK (Binary Phase-Shift keying) modes | VC    | Voice Chinese                                    |
|      |                                                                                            | X     | MFSK modes                                       |

### Notes :

There is no solid proof that the mentioned operators are correct.

Russian G06, V06 and other variants are not in the list but are occasionally used for exercises

| Code        | Description                                                              | Country | Counterpart                                          | Operator             |
|-------------|--------------------------------------------------------------------------|---------|------------------------------------------------------|----------------------|
| <b>E06</b>  | 3-fig id, OM/EE 00000                                                    | RUS     | E06, S06, M14, F01, F06, F06a                        | Russian intelligence |
| <b>E06a</b> | 3-fig id, 2 group commencing with 11111                                  | RUS     | E06, S06, M14, F01, F06, F06a                        | Russian intelligence |
| <b>E06b</b> | 3-fig id with 5FG group in call, 2 msgs                                  | RUS     | E06, S06, M14, F01, F06, F06a                        | Russian intelligence |
| <b>E07</b>  | 3-fig id, OM/EE 000 000                                                  | RUS     | E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X-- | Russian intelligence |
| <b>E07a</b> | Null msg format. Nnn nnn nnn 000 repeated 20 mins later                  | RUS     | E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X-- | Russian intelligence |
| <b>E11</b>  | nnn Oblique 00 Out                                                       | POL     | E11, E11a, S11a, F03, P03                            | Agencja Wywiadu      |
| <b>E11a</b> | E11 with message                                                         | POL     | E11, E11a, S11a, F03, P03                            | Agencja Wywiadu      |
| <b>E25</b>  | Arabic music, 3FGs call, 4FGs, 9450 kHz                                  | EGY     | E25, E25a, E25b                                      | GID                  |
| <b>E25a</b> | E25 but 3FG 3FG 2FG 2FG 2FG call                                         | EGY     | E25, E25a, E25b                                      | GID                  |
| <b>E25b</b> | Arab message; callup in English                                          | EGY     | E25, E25a, E25b                                      | GID                  |
| <b>F01</b>  | FSK/ITA2 200Bd/500Hz                                                     | RUS     | E06, S06, M14, F01, F06, F06a                        | Russian Diplo/Intel. |
| <b>F02</b>  | MFSK-4 150Bd/4000Hz (12kHz BW)                                           | RUS     |                                                      | Unid Russian net.    |
| <b>F03i</b> | FSK-2 100Bd/800Hz/cf +1200Hz/488-bit period                              | POL     | E11, E11a, S11a, F03, P03                            | Agencja Wywiadu      |
| <b>F03j</b> | FSK-4 100Bd/400Hz/cf +1200Hz/448-bit period                              | POL     | E11, E11a, S11a, F03, P03                            | Agencja Wywiadu      |
| <b>F03l</b> | FSK-2 100Bd/200Hz/cf +700Hz/448-bit period                               | POL     | E11, E11a, S11a, F03, P03                            | Agencja Wywiadu      |
| <b>F06</b>  | FSK 200Bd/1000Hz ACF=288 sending compressed digits                       | RUS     | E06, S06, M14, F01, F06, F06a                        | Russian Diplo/Intel. |
| <b>F06a</b> | FSK 200Bd/1000Hz ACF=288 sending uncompressed ASCII files                | RUS     | E06, S06, M14, F01, F06, F06a                        | Russian Diplo/Intel. |
| <b>F07</b>  | 5x16-tone MFSK, 10Bd, 20Hz + BPSK, 250Bd bursts                          | RUS     | E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X-- | Russian intelligence |
| <b>HM01</b> | Consists of alternating WinDRM data & V02a repeating sequences.          | CUB     |                                                      | DGI                  |
| <b>M01</b>  | 2 tone hand-keyed, ends '000'                                            | RUS     |                                                      | Russian Navy         |
| <b>M01a</b> | End of the month transmission                                            | RUS     |                                                      | Russian Navy         |
| <b>M12</b>  | 5FG, 3 or 4FG DK. Ends with 000 000                                      | RUS     | E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X-- | Russian intelligence |
| <b>M12a</b> | 3FG DK. 2 Messages. Ends with 000 000                                    | RUS     | E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X-- | Russian intelligence |
| <b>M14</b>  | Ends 00000 or 5 long dashes                                              | RUS     | E06, S06, M14, F01, F06, F06a                        | Russian intelligence |
| <b>M14a</b> | Dual msg variant                                                         | RUS     | E06, S06, M14, F01, F06, F06a                        | Russian intelligence |
| <b>M14b</b> | Rare, added 2nd msg hand keyed                                           | RUS     | E06, S06, M14, F01, F06, F06a                        | Russian intelligence |
| <b>M14c</b> | Rare, dual msg, consecutive id's                                         | RUS     | E06, S06, M14, F01, F06, F06a                        | Russian intelligence |
| <b>M14d</b> | 3FG id with 5FG group in call                                            | RUS     | E06, S06, M14, F01, F06, F06a                        |                      |
| <b>M21</b>  | 14 fig msgs. Markers and tracking data                                   | RUS     | M21, M41                                             | Russian Air Defense  |
| <b>M22</b>  | 4XZ                                                                      | ISR     |                                                      | Israeli Navy         |
| <b>M23</b>  | Letters and/or figures strings in various formats                        | F       |                                                      |                      |
| <b>M41</b>  | M21 variant using callsigns and WZD and ABV                              | RUS     | M21, M41                                             | Russian Air Defense  |
| <b>M42</b>  | Various modes                                                            | RUS     |                                                      | Russian Gov/Intel.   |
| <b>M42b</b> | FSK 50/500 (=50= separator)                                              | RUS     |                                                      | Russian Gov/Intel.   |
| <b>M51a</b> | FAV22 transmissions                                                      | F       |                                                      | French army          |
| <b>M51b</b> | Non-stop 5-character groups                                              | F       |                                                      | French army          |
| <b>M76</b>  | ABCD de EFGH QTC xx xx = 5FG 3607X RRRRR 201XX NNN                       |         |                                                      |                      |
| <b>M89</b>  | Markers like V YHDX YHDX YHDX DE SAQC SAQC and 4FG messages. Cut numbers | CHN     |                                                      | Chinese military     |
| <b>M89v</b> | M89 voice transmissions                                                  | CHN     |                                                      | Chinese military     |
| <b>M95</b>  | Markers and 4FG messages. Cut numbers. Morse counterpart of V26 and Q26  | CHN     | M95, Q26, V26                                        | Chinese military     |

|              |                                                                                                                                             |     |                                                      |                       |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------|-----------------------|
| <b>MC03</b>  | Tracking data. Various formats                                                                                                              | CHN | VC01                                                 | Chinese Air Defense   |
| <b>MVC03</b> | Morse counterpart of VC03                                                                                                                   | CHN | VC03                                                 | Chinese Air Defense   |
| <b>MX</b>    | Single letter beacons/markers                                                                                                               | RUS |                                                      | Russian military      |
| <b>P03e</b>  | QPSK 100Bd/488-bit period                                                                                                                   | POL | E11, E11a, S11a, F03, P03                            |                       |
| <b>P03f</b>  | QPSK 200Bd/496-bit period                                                                                                                   | POL | E11, E11a, S11a, F03, P03                            |                       |
| <b>P03g</b>  | BPSK 50Bd/464-bit period                                                                                                                    | POL | E11, E11a, S11a, F03, P03                            |                       |
| <b>P03h</b>  | BPSK 100Bd/512-bit period                                                                                                                   | POL | E11, E11a, S11a, F03, P03                            |                       |
| <b>P03i</b>  | BPSK 100Bd/512-bit period                                                                                                                   | POL | E11, E11a, S11a, F03, P03                            |                       |
| <b>P03j</b>  | QPSK 100Bd/504-bit period                                                                                                                   | POL | E11, E11a, S11a, F03, P03                            |                       |
| <b>P03k</b>  | BPSK 100Bd/480-bit period                                                                                                                   | POL | E11, E11a, S11a, F03, P03                            |                       |
| <b>P03l</b>  | QPSK 100Bd/464-bit period                                                                                                                   | POL | E11, E11a, S11a, F03, P03                            |                       |
| <b>P07</b>   | Russian intel. 8-tone OFDM, QSPK, 62.5Bd, 125Hz + BPSK, 250Bd bursts                                                                        | RUS | E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X-- | Russian intelligence  |
| <b>Q26</b>   | Digital counterpart of V26 and M95. Mode: 4+4 QPSK 75/3000 LSB and 4+4 QPSK 75/1000 LSB                                                     | CHN | M95, Q26, V26                                        | Chinese military      |
| <b>S06</b>   | 3-fig id, 00000 OM/RR                                                                                                                       | RUS | E06, S06, M14, F01, F06, F06a                        | Russian intelligence  |
| <b>S06b</b>  | 3-fig id, two group (commencing with 11111, stutter)                                                                                        | RUS | E06, S06, M14, F01, F06, F06a                        | Russian intelligence  |
| <b>S06c</b>  | Repeating single group                                                                                                                      | RUS | E06, S06, M14, F01, F06, F06a                        | Russian intelligence  |
| <b>S06e</b>  | 3-fig id, two messages                                                                                                                      | RUS | E06, S06, M14, F01, F06, F06a                        | Russian intelligence  |
| <b>S06f</b>  | 3 group msg, ends 00000                                                                                                                     | RUS | E06, S06, M14, F01, F06, F06a                        | Russian intelligence  |
| <b>S06s</b>  | YL + slow zero's ending                                                                                                                     | UKR | E06, S06, M14, F01, F06, F06a                        | SZRU                  |
| <b>S11a</b>  | nnn Cherta 00 or group count + message. Konets                                                                                              | POL | E11, E11a, S11a, F03, P03                            | Agencja Wywiadu       |
| <b>S28</b>   | Buzzer                                                                                                                                      | RUS |                                                      | Russian military      |
| <b>S30</b>   | Pip                                                                                                                                         | RUS |                                                      | Russian military      |
| <b>S32</b>   | Squeaky Wheel                                                                                                                               | RUS |                                                      | Russian military      |
| <b>UM03</b>  | X2M (probably Chinese). Mode: CW                                                                                                            |     |                                                      |                       |
| <b>UM04</b>  | PROMRCh. Daily transmissions. Format: VVVVVV<br>PROMRCh = 27 09 = 1000 0600 0640 0780 1160 ... ABV<br>repeat message = AR. Origin: Bulgaria | BUL |                                                      | Bulgarian military    |
| <b>UM05</b>  | French morse training station                                                                                                               | F   |                                                      |                       |
| <b>UM06</b>  | Various formats morse strings                                                                                                               | F   |                                                      |                       |
| <b>UM10</b>  | 10-minutes net. Callsigns sent for 10 minutes 2x per hour on 2 parallel frequencies. Seldom messages are sent.                              |     |                                                      |                       |
| <b>V07</b>   | Spanish Man 000 000                                                                                                                         | RUS | E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1      | Russian intelligence  |
| <b>V07F</b>  | French version of E07                                                                                                                       | RUS | E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X-- | Russian intelligence  |
| <b>V13</b>   | New Star Broadcasting                                                                                                                       | TWN | V13, V13a, V13b                                      | Military Intelligence |
| <b>V13a</b>  | New Star Broadcasting (AM, 5-7 msgs to 5-7 units)                                                                                           | TWN | V13, V13a, V13b                                      | Military Intelligence |
| <b>V13b</b>  | New Star Broadcasting (AM/USB hybrid, intro 2x, 4 msgs to 4 units)                                                                          | TWN | V13, V13a, V13b                                      | Military Intelligence |
| <b>V26</b>   | Voice counterpart of M95 and Q26                                                                                                            | CHN | M95, Q26, V26                                        | Chinese miliary       |
| <b>V32</b>   | Messages in Farsi beamed to Iran                                                                                                            |     |                                                      |                       |
| <b>VC01</b>  | Chinese Robot (tracking data)                                                                                                               | CHN | MC03                                                 | Chinese Air Defense   |
| <b>VC02</b>  | Chinese voice morse stations                                                                                                                | CHN |                                                      | Chinese Air Defense   |
| <b>VC03</b>  | 3FG callup and 4FG messages                                                                                                                 |     |                                                      |                       |
| <b>VC05</b>  | Chinese time stamp station. Operator calling a 4-figure callsign for four minutes. At the end the actual Beijing time is mentioned.         | CHN |                                                      |                       |
| <b>VR01</b>  | Russian station passing coded messages. Active sinds at least March 2014. Seldom heard                                                      | RUS |                                                      |                       |
| <b>X06</b>   | MFA Moscow. Selcal system for diplomatic missions                                                                                           | RUS |                                                      | Various               |
| <b>XPA1</b>  | MFSK-20/10Bd transmissions                                                                                                                  | RUS |                                                      | Russian intelligence  |
| <b>XPA2</b>  | MFSK-16/20Bd transmissions                                                                                                                  | RUS |                                                      | Russian intelligence  |
| <b>XPB1</b>  | MFSK-16 transmissions                                                                                                                       | RUS |                                                      | Russian intel         |
| <b>XSL</b>   | QPSK 1500Bd. Slot Machine (Japanese Navy Telemetry)                                                                                         | J   |                                                      | Japanese navy         |
| <b>X--</b>   | 21-tone MFSK with 125 Hz tone spacing + 13-tone MFSK with 250 Hz spacing                                                                    | RUA | E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X-- | Russian intelligence  |

## APPENDIX

### Morse characters

|   |         |                  |           |                        |            |               |
|---|---------|------------------|-----------|------------------------|------------|---------------|
| A | . -     | 1                | . - - - - | Full stop (period)     | [ . ]      | . - . - . -   |
| B | - . . . | 2                | . . - - - | Comma                  | [ , ]      | - - . . - -   |
| C | - . . . | 3                | . . . - - | Colon                  | [ : ]      | - - - . . .   |
| D | - . .   | 4                | . . . . - | Question mark          | [ ? ]      | . . - - . .   |
| E | .       | 5                | . . . . . | Exclamation mark       | [ ! ]      | - . . . - -   |
| F | . . - . | 6                | - . . . . | Apostrophe             | [ ' ]      | . - - - - .   |
| G | - - .   | 7                | - - . . . | Dash or Hyphen         | [ - ]      | - . . . . -   |
| H | . . . . | 8                | - - - . . | Slash                  | [ / ]      | - . . - .     |
| I | . .     | 9                | - - - - . | Left-hand bracket      | [ ( ]      | - . - - .     |
| J | . - - - | 0                | - - - - - | Right-hand bracket     | [ ) ]      | - . - - . -   |
| K | - . -   |                  |           | Quotation marks        | [ " " ]    | . - . . .     |
| L | . - . . |                  |           | Equals sign            | [ BT = ]   | - . . . -     |
| M | - -     | Accented letters |           | Understood             |            | . . . - .     |
| N | - .     |                  |           | Plus sign              | [ + ]      | . - . - .     |
| O | - - -   |                  |           | Invitation to transmit |            | - . -         |
| P | . - . . |                  |           | Wait                   | [ AS ]     | . - . . .     |
| Q | - - . - |                  |           | End of Transmission    | [ SK, VA ] | . . . - . -   |
| R | . - .   | Ü                | - - - .   | End of message         | [ AR ]     | . - . - .     |
| S | . . .   |                  | . . - -   | Starting signal        |            | - . . . -     |
| T | -       |                  |           | Multiplication sign    | [ × ]      | - . . -       |
| U | . . -   |                  |           | At sign                | [ @ ]      | . - - . - .   |
| V | . . . - |                  |           | Break                  | [ BK ]     | - . . . - . - |
| W | . - -   |                  |           | Ampersand              | [ & ]      | . - . . .     |
| X | - . . - |                  |           |                        |            |               |
| Y | - . - - |                  |           |                        |            |               |
| Z | - - . . |                  |           |                        |            |               |

For Cyrillic morse etc., see also

<http://udxf.nl/Morse-document.pdf>

<http://udxf.nl/Russian.pdf>

Chinese cut numbers  
(M89, M95, MC03, etc)

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| A | U | 3 | 4 | 5 | 6 | 7 | D | N | T |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

M08a cut numbers

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| A | N | D | U | W | R | I | G | M | T |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

Q26 conversion

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| F | J | B | P | G | U | Y | M | C | W |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

3<sup>rd</sup> shift Cyrillic RTTY as used by M42b

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Q | W | E | R | T | Y | U | I | O | P | ( | K | V | Z |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | K | = | - | + |

|           |           |          |           |
|-----------|-----------|----------|-----------|
| Word      | E11a      | S11a     | M03       |
| Attention | Attention | Vnimanye |           |
| Slash /   | Oblique   | Cirta    | - . . - . |
| Out       | Out       | Konets   |           |

| Figure | English | French | German | Mandarin | Spanish | Russian  | Arabic  |
|--------|---------|--------|--------|----------|---------|----------|---------|
| 0      | Zero    | Zéro   | Null   | Ling     | Cero    | Null     | Sifr    |
| 1      | One     | Un     | Eins   | Yi       | Uno     | Odín     | Wahid   |
| 2      | Two     | Deux   | Zwei   | Er       | Dos     | Dva      | Itzien  |
| 3      | Three   | Trois  | Drei   | San      | Tres    | Tri      | Talata  |
| 4      | Four    | Quatre | Vier   | Si       | Cuatro  | Chety're | Arba'a  |
| 5      | Five    | Cinq   | Fünf   | Wu       | Cinco   | Pyat'    | Xamsa   |
| 6      | Six     | Six    | Sechs  | Liu      | Seis    | Shest'   | Sitta   |
| 7      | Seven   | Sept   | Sieben | Qi       | Siete   | Sem'     | Sab`a   |
| 8      | Eight   | Huit   | Acht   | Ba       | Ocho    | Vósem'   | Tamanya |
| 9      | Nine    | Neuf   | Neun   | Jiu      | Nueve   | Dévyat'  | Tiss`a  |

| Figure | Morse     | Vietnamese | E17z  | S11a       | G06    | E11   |
|--------|-----------|------------|-------|------------|--------|-------|
| 0      | — — — — — | Số không   | Zero  | nul        | Null   | Zero  |
| 1      | . — — — — | Một        | Van   | adinka     | Eins   | One   |
| 2      | . . — — — | Hai        | To    | dvoyka     | Twso   | Two   |
| 3      | . . . — — | Ba         | Fwee  | troyka     | Drei   | Three |
| 4      | . . . . — | Bô'n       | Fo    | chetvyorka | Vier   | Four  |
| 5      | . . . . . | Năm        | Fav   | petyorka   | Funuf  | Fiver |
| 6      | — . . . . | Sáu        | Six   | shest      | Sechs  | Six   |
| 7      | — — . . . | Ba   y     | Seven | syem       | Sieben | Seven |
| 8      | — — — . . | Tám        | Eight | vosyem     | Acht   | Eight |
| 9      | — — — — . | Chín       | Nine  | dyevyet    | Neugen | Niner |
| =      | — . . . . |            |       |            |        |       |
| /      | — . . . . |            |       |            |        |       |



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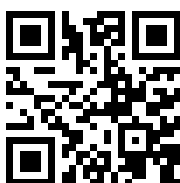
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886 A0932 70987 32123 49817 26346 81287 65491 87364 81  
721 75654 55656 12737 72727 72727 91918 63473 67867 76  
723 87629 37677 32612 53498 71296 28756 18276 98716 87  
7269 76329 74698 76857 98678 27681 56781 57681 73648 1  
791 87364 87265 96718 27638 12673 84769 28743 98127 5  
8 63298 75698 27465 87326 49876 28376 81273 98615 86  
67 87432 74328 78674 29867 32867 67867 86786 43286 86  
57 68768 68763 34234 34238 68768 62342 48273 48768 238  
936 98432 32432 86743 43286 43286 43286 43286 43286 86  
743 86743 86743 39867 32867 86743 43286 43286 43243 86  
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583 98798 98754 98754 98754 98754 29867 67543 67986 86  
576 87698 69876 87698 69876 87612 12341 34867 86798 682  
867 43298 65656 56756 56123 32143 14321 32143 14321 321  
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